

Michael G Tytgat

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4306144/publications.pdf>

Version: 2024-02-01

1,197
papers

62,102
citations

1612

105
h-index

2825

191
g-index

1218
all docs

1218
docs citations

1218
times ranked

13748
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61. | 1.5 | 6,177 |
| 2 | The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004. | 0.5 | 2,192 |
| 3 | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212. | 1.4 | 541 |
| 4 | Observation of long-range, near-side angular correlations in pPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 795-814. | 1.5 | 520 |
| 5 | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155. | 1.4 | 499 |
| 6 | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 497 |
| 7 | Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7, 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61. | 1.5 | 455 |
| 8 | Single-Spin Asymmetries in Semi-Inclusive Deep-Inelastic Scattering on a Transversely Polarized Hydrogen Target. Physical Review Letters, 2005, 94, 012002. | 2.9 | 466 |
| 9 | Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Transverse Momentum and Pseudorapidity Distributions of Charged Hadrons in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 105, 022002. | 1.1 | 455 |
| 10 | Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 105, 022002. | 2.9 | 400 |
| 11 | Study of high- p_T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 369 |
| 12 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 421. | 1.4 | 355 |
| 13 | Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 213-240. | 1.5 | 354 |
| 14 | Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003. | 0.5 | 348 |
| 15 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076. | 1.4 | 342 |
| 16 | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 320 |
| 17 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 235. | 1.4 | 320 |
| 18 | The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020. | 0.5 | 307 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Measurement of the properties of a Higgs boson in the four-lepton final state. Physical Review D, 2014, 89, . | 1.6 | 299 |
| 20 | Precise determination of the spin structure function g_1 of the proton, deuteron, and neutron. Physical Review D, 2007, 75, . | 1.6 | 289 |
| 21 | Measurement of the $\langle \mathcal{B}(B \rightarrow s\gamma) \rangle$ and $\langle \mathcal{B}(B \rightarrow s\gamma) \rangle$ branching fractions and search for $\langle \mathcal{B}(B \rightarrow s\gamma) \rangle$. Physical Review Letters, 2013, 110, 081803. | 2.9 | 282 |
| 22 | Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to $Z\gamma$ and $Z\nu\bar{\nu}$ Boson Pairs. Physical Review Letters, 2013, 110, 081803. | 2.9 | 270 |
| 23 | The HERMES Spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 417, 230-265. | 0.7 | 269 |
| 24 | Measurement of the neutron spin structure function g_1 with a polarized ^3He internal target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 404, 383-389. | 1.5 | 260 |
| 25 | Observation of the Naive- T -Odd Sivers Effect in Deep-Inelastic Scattering. Physical Review Letters, 2009, 103, 152002. | 2.9 | 260 |
| 26 | Evidence for a Single-Spin Azimuthal Asymmetry in Semi-inclusive Pion Electroproduction. Physical Review Letters, 2000, 84, 4047-4051. | 2.9 | 256 |
| 27 | Measurement of the Beam-Spin Azimuthal Asymmetry Associated with Deeply-Virtual Compton Scattering. Physical Review Letters, 2001, 87, . | 2.9 | 253 |
| 28 | Evidence for collectivity in pp collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 193-220. | 1.5 | 243 |
| 29 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at $8\hat{\text{A}}\text{TeV}$. European Physical Journal C, 2014, 74, 3036. | 1.4 | 241 |
| 30 | Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. Journal of Instrumentation, 2018, 13, P05011-P05011. | 0.5 | 241 |
| 31 | Evidence for a narrow $ S =1$ baryon state at a mass of $1528\hat{\text{A}}\text{MeV}$ in quasi-real photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 585, 213-222. | 1.5 | 232 |
| 32 | Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 230 |
| 33 | Observation of Sequential $\langle \mathcal{B}(B \rightarrow s\gamma) \rangle$ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301. | 2.9 | 220 |
| 34 | Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801. | 2.9 | 219 |
| 35 | Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014. | 0.5 | 216 |
| 36 | Quark helicity distributions in the nucleon for up, down, and strange quarks from semi-inclusive deep-inelastic scattering. Physical Review D, 2005, 71, . | 1.6 | 210 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Observation of $t\bar{t}$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 120, 231801. | 2.9 | 209 |
| 38 | Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804. | 2.9 | 208 |
| 39 | Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 200 |
| 40 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4. | 1.4 | 198 |
| 41 | Measurement of the proton spin structure function g_1^p with a pure hydrogen target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 442, 484-492. | 1.5 | 195 |
| 42 | Search for lepton-flavour-violating decays of the Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 337-362. | 1.5 | 193 |
| 43 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542. | 1.4 | 191 |
| 44 | Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, . | 1.1 | 185 |
| 45 | Constraints on the spin-parity and anomalous couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, . | 1.6 | 185 |
| 46 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 181 |
| 47 | Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2018, 13, P06015-P06015. | 0.5 | 180 |
| 48 | Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149. | 1.4 | 179 |
| 49 | Evidence for Collective Multiparticle Correlations in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301. | 2.9 | 177 |
| 50 | Flavor Asymmetry of the Light Quark Sea from Semi-inclusive Deep-Inelastic Scattering. Physical Review Letters, 1998, 81, 5519-5523. | 2.9 | 176 |
| 51 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 168 |
| 56 | Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, . | 1.6 | 167 |
| 57 | Effects of transversity in deep-inelastic scattering by polarized protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 11-16. | 1.5 | 165 |
| 58 | Jet momentum dependence of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 712, 176-197. | 2.9 | 160 |
| 59 | Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 161 |
| 60 | Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2018, 120, 221801. | 2.9 | 160 |
| 61 | Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 158 |
| 62 | Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 154 |
| 63 | Indications of Suppression of Excited Λ States in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 052302. | 2.9 | 153 |
| 64 | Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 403-425. | 1.5 | 148 |
| 65 | Single-spin azimuthal asymmetries in electroproduction of neutral pions in semi-inclusive deep-inelastic scattering. Physical Review D, 2001, 64, . | 1.6 | 147 |
| 66 | Search for supersymmetry in hadronic final states with missing transverse energy using the variables \hat{t} and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568. | 1.4 | 147 |
| 67 | Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 243-263. | 1.6 | 146 |
| 68 | Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 243-263. | 1.5 | 144 |
| 69 | Flavor decomposition of the polarized quark distributions in the nucleon from inclusive and semi-inclusive deep-inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 464, 123-134. | 1.5 | 143 |
| 70 | Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and Pb collisions. Physical Review C, 2015, 92, . | 1.1 | 140 |
| 71 | Strange particle production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 139 |
| 72 | Measurement of Long-Range Near-Side Two-Particle Angular Correlations in pp Collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Physical Review Letters, 2016, 116, 172302. | 2.9 | 139 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1. | 1.4 | 135 |
| 74 | Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, . | 1.33 | 133 |
| 75 | Studies of jet quenching using isolated-photon + jet correlations in PbPb and pp collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 773-794. | 1.5 | 130 |
| 76 | A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 129 |
| 77 | Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 64-85. | 1.5 | 129 |
| 78 | Search for Dijet Resonances in $\sqrt{s} = 7$ TeV pp Collisions at CMS. Physical Review Letters, 2010, 105, 211801. | 2.9 | 126 |
| 79 | Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803. | 2.9 | 126 |
| 80 | Measurement of the Inclusive Jet Cross Section in $\sqrt{s} = 7$ TeV pp Collisions at CMS. Physical Review Letters, 2011, 107, 132001. | 2.9 | 125 |
| 81 | Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1. | 1.4 | 125 |
| 82 | Observation of the Higgs boson decay to a pair of τ , leptons with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 283-316. | 1.5 | 125 |
| 83 | Measurement of the Spin Asymmetry in the Photoproduction of Pairs of High-pT Hadrons at HERMES. Physical Review Letters, 2000, 84, 2584-2588. | 2.9 | 124 |
| 84 | Evidence for the 125 GeV Higgs boson decaying to a pair of τ , leptons. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 123 |
| 85 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 14$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800. | 1.4 | 123 |
| 86 | Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 122 |
| 87 | Measurement of isolated-photon production in pp and PbPb collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 773-794. | 1.5 | 122 |
| 88 | Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 494-519. | 1.5 | 120 |
| 89 | CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192. | 1.4 | 120 |
| 90 | Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 68-90. | 1.5 | 120 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 123-142. | 1.5 | 118 |
| 92 | Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 171803. | 2.9 | 118 |
| 93 | Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 118 |
| 94 | Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 117 |
| 95 | Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 107, 071801. | 1.6 | 115 |
| 96 | Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2016, 116, 071801. | 2.9 | 114 |
| 97 | Observation of a peaking structure in the $Z \rightarrow \mu\mu$ invariant mass spectrum from pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 111, 111801. | 1.1 | 113 |
| 98 | Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.5 | 112 |
| 99 | Measurement of the rapidity and transverse momentum distributions of $Z \rightarrow \mu\mu$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 071801. | 1.5 | 110 |
| 100 | Measurement of the rapidity and transverse momentum distributions of $Z \rightarrow \mu\mu$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 071801. | 1.6 | 108 |
| 101 | Multiplicities of charged pions and kaons from semi-inclusive deep-inelastic scattering by the proton and the deuteron. Physical Review D, 2013, 87, 034004. | 1.6 | 108 |
| 102 | Observation of the Associated Production of a Single Top Quark and a W Boson in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 071801. | 2.9 | 108 |
| 103 | Azimuthal Anisotropy of Charged Particles and Neutral Mesons in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 071801. | 2.9 | 108 |
| 104 | Observation of Charge-Dependent Azimuthal Correlations in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2017, 118, 122301. | 2.9 | 107 |
| 105 | Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9$, 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 106 |
| 106 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 103 |
| 107 | Measurement of parton distributions of strange quarks in the nucleon from charged-kaon production in deep-inelastic scattering on the deuteron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 446-450. | 1.5 | 102 |
| 108 | Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2019, 122, 121803. | 2.9 | 102 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 101 |
| 110 | Nuclear modification factor of D0 mesons in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 474-496. | 1.6 | 101 |
| 111 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 100 |
| 112 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 99 |
| 113 | Measurement of the prompt J/ψ production and $\tilde{\Gamma}$ and $\tilde{\Gamma}$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 92 |
| 128 | Measurement of single-spin azimuthal asymmetries in semi-inclusive electroproduction of pions and kaons on a longitudinally polarised deuterium target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 562, 182-192. | 1.5 | 90 |
| 129 | First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443. | 1.5 | 90 |
| 130 | Searches for new physics using the invariant mass distribution in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2013, 111, 211804. | 2.9 | 90 |
| 131 | Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 1-13. | 1.6 | 90 |
| 132 | Search for dilepton resonances in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on dark matter and other models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 1-13. | 1.5 | 90 |
| 133 | Measurement of the cross section for the production of a Υ meson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 1-13. | 1.5 | 89 |
| 134 | Measurement of the cross section for the production of a Υ meson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 1-13. | 1.6 | 88 |
| 135 | Measurement of the cross section for the production of a Υ meson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 1-13. | 1.5 | 88 |
| 136 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 5-27. | 1.5 | 88 |
| 137 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 5-27. | 1.5 | 88 |
| 138 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147. | 1.4 | 88 |
| 139 | Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 560-582. | 1.5 | 87 |
| 140 | Angular analysis of the decay $B \rightarrow K^* \mu^+ \mu^-$ from pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 424-448. | 1.5 | 87 |
| 141 | Concurrent J/ψ photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 424-448. | 1.5 | 87 |
| 142 | Evidence for light-by-light scattering and searches for axion-like particles in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 424-448. | 1.5 | 87 |
| 143 | Measurement of the cross section for the production of a Υ meson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 1-13. | 2.9 | 86 |
| 144 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 86 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 85 |
| 146 | Evidence of b -jet quenching in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 132301. | 2.9 | 85 |
| 147 | Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 85 |
| 148 | Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 85 |
| 149 | Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847. | 1.4 | 85 |
| 150 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017. | 0.5 | 84 |
| 151 | Measurement of the single-top-quark t -channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 83 |
| 152 | Study of W boson production in PbPb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 340, 277. | 1.6 | 83 |
| 153 | Measurement of the differential cross section and charge asymmetry for inclusive W production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 1.4 | 83 |
| 154 | Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s_{\text{NN}}} = 5.02$ TeV collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509. | 1.4 | 83 |
| 155 | Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 13$ TeV using the CMS detector. Journal of Instrumentation, 2019, 14, P07004-P07004. | 0.5 | 83 |
| 156 | Measurement of the differential cross section and charge asymmetry for inclusive W production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469. | 1.4 | 83 |
| 157 | Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s_{\text{NN}}} = 5.02$ TeV collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509. | 1.4 | 83 |
| 158 | Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s} = 13$ TeV using the CMS detector. Journal of Instrumentation, 2019, 14, P07004-P07004. | 0.5 | 83 |
| 159 | Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252. | 1.4 | 82 |
| 160 | Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 82 |
| 161 | J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 81 |
| 162 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 81 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Search for a charged Higgs boson in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 81 |
| 164 | Measurement of angular parameters from the decay $B \rightarrow \pi^0 \pi^+ \pi^-$ in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 517-541. | 2.9 | 80 |
| 165 | Production Cross Section in $pp \rightarrow B^0 \pi^+ \pi^-$ Collisions at $\sqrt{s} = 8 \text{ TeV}$. Study of Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Physical Review Letters, 2011, 106, 212301. | 2.9 | 80 |
| 166 | Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801. | 2.9 | 80 |
| 167 | Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 28-49. | 1.5 | 79 |
| 168 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 78 |
| 169 | Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at $\sqrt{s} = 8 \text{ TeV}$. Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 2019-2020. | 1.6 | 78 |
| 170 | Determination of the top-quark pole mass and strong coupling constant from the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 77 |
| 171 | Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 200-224. | 1.5 | 77 |
| 172 | Measurement of nuclear modification factors of $T(1S)$, $T(2S)$, and $T(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Inclusive and differential measurements of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Search for Top-Quark Partners with Charge Parity and Spin. Physical Review Letters, 2014, 112, 171801. | 1.5 | 76 |
| 173 | Search for Top-Quark Partners with Charge Parity and Spin. Physical Review Letters, 2014, 112, 171801. | 2.9 | 76 |
| 174 | Study of exclusive two-photon production of W^+W^- in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 75 |
| 175 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp \rightarrow \tau^+ \tau^-$ Collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review Letters, 2011, 106, 231801. | 1.4 | 75 |
| 176 | Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp \rightarrow \tau^+ \tau^-$ Collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review Letters, 2011, 106, 231801. | 2.9 | 74 |
| 177 | Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp \rightarrow \tau^+ \tau^-$ Collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review Letters, 2011, 106, 231801. | 2.9 | 74 |
| 178 | Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp \rightarrow \tau^+ \tau^-$ Collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review Letters, 2011, 106, 231801. | 2.9 | 74 |
| 179 | Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp \rightarrow \tau^+ \tau^-$ Collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review Letters, 2011, 106, 231801. | 2.9 | 74 |
| 180 | Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in $pp \rightarrow \tau^+ \tau^-$ Collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review Letters, 2011, 106, 231801. | 2.9 | 74 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401. | 1.4 | 74 |
| 182 | Search for Narrow Resonances in Dijet Final States at the Novel CMS Technique of Data Scouting. Physical Review Letters, 2016, 117, 031802. | 2.9 | 74 |
| 183 | Search for W^+W^- production via decays to $J/\psi + \bar{\nu}\nu$ in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 357-379. | 2.76 | 74 |
| 184 | Measurement of the X(3872) production cross section via decays to $J/\psi + \bar{\nu}\nu$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 73 |
| 185 | Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2015, 91, . | 1.6 | 73 |
| 186 | Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251. | 1.4 | 73 |
| 187 | Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2016, 94, . | 1.6 | 73 |
| 188 | Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 051802. | 2.9 | 73 |
| 189 | Search for additional neutral MSSM Higgs bosons in the $J/\psi, \bar{\nu}\nu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 73 |
| 190 | Search for vectorlike charge $\frac{1}{3}$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Searches for physics beyond the standard model with the T_2 variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 3. | 1.4 | 70 |
| 200 | The HERMES polarized hydrogen and deuterium gas target in the HERA electron storage ring. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 540, 68-101. | 0.7 | 69 |
| 201 | Measurement of the Tensor Structure Function of the Deuteron. Physical Review Letters, 2005, 95, 242001. | 2.9 | 69 |
| 202 | Measurement of the $\sigma(\text{pp} \rightarrow \text{Z} \gamma)$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 69 |
| 203 | Searches for electroweak neutral and charged production channels with Higgs bosons and W bosons in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2014, 89, 112005. | 1.6 | 69 |
| 204 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 69 |
| 205 | Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 147-170. | 1.5 | 69 |
| 206 | Performance of reconstruction and identification of $\tilde{l}, \tilde{\nu}_l$ leptons decaying to hadrons and $\tilde{l} \rightarrow s$ in pp collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2018, 13, P10005-P10005. | 0.5 | 69 |
| 207 | Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state. Physical Review D, 2019, 99, 112005. | 1.6 | 69 |
| 208 | Search for anomalous production of multilepton events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 68 |
| 209 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469. | 1.4 | 68 |
| 210 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 68 |
| 211 | Search for heavy Majorana neutrinos in $pp \rightarrow \tilde{l} + \text{jets}$ events in proton-proton collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 184-207. | 1.5 | 67 |
| 212 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186. | 1.4 | 68 |
| 213 | Measurement of the $\sigma(\text{pp} \rightarrow t \bar{t})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2019, 79, 368. | 1.4 | 68 |
| 214 | Search for a standard model-like Higgs boson in the $pp \rightarrow \tilde{l} + e$ channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 184-207. | 1.5 | 67 |
| 215 | Nuclear effects on R_{fL}/f_T in deep-inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 475, 386-394. | 1.5 | 65 |
| 216 | Measurement of the differential cross section for isolated prompt photon production in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2011, 84, 112005. | 1.6 | 65 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}}$ = 2.76 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 65 |
| 218 | Search for microscopic black hole signatures at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 434-453. | 1.5 | 65 |
| 219 | Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in Collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129. | 2.9 | 65 |
| 220 | Observation of a New Baryon. Physical Review Letters, 2012, 108, 252002. | 2.9 | 65 |
| 221 | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129. | 1.4 | 65 |
| 222 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283. | 1.4 | 64 |
| 223 | Search for Flavor-Changing Neutral Currents in Top-Quark Decays in Collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129. | 2.9 | 64 |
| 224 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439. | 1.4 | 64 |
| 225 | Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in Pb-Pb collisions at the CERN Large Hadron Collider. Physical Review C, 2018, 97, 034907. | 1.1 | 64 |
| 226 | First Determination of Generalized Polarizabilities of the Proton by a Virtual Compton Scattering Experiment. Physical Review Letters, 2000, 85, 708-711. | 2.9 | 63 |
| 227 | Search for narrow resonances in dilepton mass spectra in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 158-179. | 2.9 | 63 |
| 228 | Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801. | 2.9 | 63 |
| 229 | Measurements of Spin Correlations and Top-Quark Polarization Using Dilepton Final States in Collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129. | 2.9 | 63 |
| 230 | Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119. | 1.5 | 63 |
| 231 | Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 187-209. | 1.5 | 63 |
| 232 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 63 |
| 233 | Evidence for the Higgs boson decay to a bottom quark-antiquark pair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532. | 1.5 | 63 |
| 234 | A measurement of the Higgs boson mass in the diphoton decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135425. | 1.5 | 63 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Measurement of the Isolated Prompt Photon Production Cross Section in $pp \rightarrow \gamma + \text{hadrons} + X$ Collisions at $\sqrt{s} = 7 \text{ TeV}$ Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ Physical Review Letters, 2012, 109, 152303. | 2.9 | 62 |
| 236 | Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 284-306. | 2.9 | 62 |
| 237 | Measurement of the $W+W\bar{a}$ cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and limits on anomalous $WW\bar{f}^3$ and WWZ couplings. European Physical Journal C, 2013, 73, 1. | 1.4 | 62 |
| 238 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2016, 76, 13. | 1.4 | 62 |
| 239 | Measurement of the $B \rightarrow A \pm$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ Physical Review Letters, 2017, 119, 152301. | 2.9 | 62 |
| 240 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s =$ $13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 62 |
| 241 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 62 |
| 242 | Observation of Two Excited Spin-1 Quark $B_c \rightarrow B \gamma$ States and Measurement of the $B_c \rightarrow B \gamma$ Stretchy="false"> $B_c \rightarrow B \gamma$ Ti FT0q1 1 0.784314 r0BT /Overlock 10 Tf 50 402 | 2.9 | 62 |
| 243 | Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. Journal of Instrumentation, 2021, 16, P05014. | 0.5 | 62 |
| 244 | Leading-order determination of the gluon polarization from high-p T hadron electroproduction. Journal of High Energy Physics, 2010, 2010, 1. | 1.6 | 61 |
| 245 | Measurement of the $B \rightarrow B^0$ Production Cross Section in $pp \rightarrow \gamma + \text{hadrons} + X$ Collisions at $\sqrt{s} = 7 \text{ TeV}$ Evidence for Associated Production of a Single Top Quark and W B boson in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$ Physical Review Letters, 2013, 110, 022003. | 2.9 | 61 |
| 246 | Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1. | 2.9 | 61 |
| 247 | Search for pair production of third-generation scalar leptiquarks and top squarks in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ Search for resonant $B \rightarrow B^0$ Production Cross Section in $pp \rightarrow \gamma + \text{hadrons} + X$ Collisions at $\sqrt{s} = 7 \text{ TeV}$ Evidence for Associated Production of a Single Top Quark and W B boson in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$ Physical Review Letters, 2013, 110, 022003. | 2.9 | 61 |
| 248 | Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 61 |
| 249 | Search for pair production of third-generation scalar leptiquarks and top squarks in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ Search for resonant $B \rightarrow B^0$ Production Cross Section in $pp \rightarrow \gamma + \text{hadrons} + X$ Collisions at $\sqrt{s} = 7 \text{ TeV}$ Evidence for Associated Production of a Single Top Quark and W B boson in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$ Physical Review Letters, 2013, 110, 022003. | 1.6 | 61 |
| 250 | Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review D, 2017, 96, . | 1.6 | 61 |
| 251 | Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 7 \text{ TeV}$ Physical Review Letters, 2020, 124, 131802. | 2.9 | 61 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011, 106, 102003. | 2.9 | 60 |
| 254 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , 2013, 73, 1303. | 1.4 | 60 |
| 255 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , 2013, 73, 1303. | 2.9 | 60 |
| 256 | Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1. | 1.6 | 59 |
| 257 | Search for a vectorlike Quark with Charge $\pm 2/3$ in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1. | 2.9 | 59 |
| 258 | A search for pair production of new light bosons decaying into muons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 752, 146-168. | 1.5 | 59 |
| 259 | Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review C</i> , 2017, 96, 014907. | 1.1 | 59 |
| 260 | Search for anomalous t production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 1.6 | 58 |
| 261 | Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 1.6 | 58 |
| 262 | Studies of jet mass in dijet and W/Z + jet events. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 58 |
| 263 | Interpretation of searches for supersymmetry with simplified models. <i>Physical Review D</i> , 2013, 88, 075011. | 1.6 | 58 |
| 264 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>European Physical Journal C</i> , 2015, 75, 237. | 1.4 | 58 |
| 265 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV. <i>European Physical Journal C</i> , 2018, 78, 701. | 1.4 | 58 |
| 266 | | | |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 271 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578. | 1.4 | 57 |
| 272 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 273 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 274 | Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 56 |
| 275 | Exclusive $\tilde{\chi}_1^0 \tilde{\chi}_1^{\pm} \tilde{\chi}_1^{\mp} \tilde{\chi}_1^0$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 56 |
| 276 | Measurement of the ratio of inclusive jet cross sections using the anti- k_T algorithm with radius parameters R and event activity dependence of Υ (nS) production in $\sqrt{s} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 56 |
| 277 | Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. Journal of Instrumentation, 2020, 15, P06005-P06005. | 0.5 | 56 |
| 279 | Search for heavy long-lived charged particles in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 408-433. | 1.6 | 56 |
| 280 | Measurement of masses in the $\overline{\text{tt}}$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494. | 1.4 | 55 |
| 281 | Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 55 |
| 282 | Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, . | 1.6 | 55 |
| 283 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451. | 1.4 | 55 |
| 284 | Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 57-80. | 1.6 | 55 |
| 285 | Measurement of Dijet Angular Distributions and Search for Quark Compositeness in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2011, 106, 201804. | 1.5 | 55 |
| 286 | Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 25-37. | 2.9 | 54 |
| 287 | Measurement of the $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ production in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578. | 1.5 | 54 |
| 288 | Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 57-80. | | |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 289 | Azimuthal distributions of charged hadrons, pions, and kaons produced in deep-inelastic scattering off unpolarized protons and deuterons. Physical Review D, 2013, 87, . | 1.6 | 54 |
| 290 | Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 221-243. | 1.5 | 54 |
| 291 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288. | 1.4 | 54 |
| 292 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 54 |
| 293 | Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 141802. | 2.9 | 54 |
| 294 | Search for charged Higgs bosons in the $H \rightarrow \tau^+ \tau^-$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 54 |
| 295 | Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 54 |
| 296 | Observation of a Coherence Length Effect in Exclusive π^0 Electroproduction. Physical Review Letters, 1999, 82, 3025-3029. | 2.9 | 53 |
| 297 | Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 53 |
| 298 | Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2011, 107, 201804. | 2.9 | 53 |
| 299 | Search for supersymmetry in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2011, 107, 201804. | 2.9 | 53 |
| 300 | Searches for a heavy scalar H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau^+ \tau^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 328-353. | 1.5 | 53 |
| 301 | Searches for a heavy scalar H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow \tau^+ \tau^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 217-244. | 1.5 | 53 |
| 302 | Measurement of prompt and nonprompt $\psi(2S)$ production in pp and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269. | 1.4 | 53 |
| 303 | diphoton final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 320-347. | 1.5 | 53 |
| 304 | Beam-helicity and beam-charge asymmetries associated with deeply virtual Compton scattering on the unpolarised proton. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 52 |
| 305 | Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 52 |
| 306 | Measurement of the ZZ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2014, 113, 201804. | 1.5 | 52 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 307 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459. | 1.4 | 52 |
| 308 | Measurements of the $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 1.4 | 52 |
| 309 | Beam-spin asymmetries in the azimuthal distribution of pion electroproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 648, 164-170. | 1.5 | 51 |
| 310 | Measurement of double-spin asymmetries associated with deeply virtual Compton scattering on a transversely polarized hydrogen target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 15-23. | 1.5 | 51 |
| 311 | Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. Physical Review D, 2011, 84, . | 1.6 | 51 |
| 312 | Search for exclusive or semi-exclusive $\hat{\tau}\hat{\tau}^3$ production and observation of exclusive and semi-exclusive e^+e^- production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 51 |
| 313 | Searches for heavy Higgs bosons in two-Higgs-doublet models and $\hat{\tau}^+\hat{\tau}^-$ decay using multilepton and diphoton final states in pp collisions at 8 TeV . Physical Review D, 2014, 90, . | 1.6 | 51 |
| 314 | Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 51 |
| 315 | Cross sections for hard exclusive electroproduction of ρ^0 mesons on a hydrogen target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 486-492. | 1.5 | 50 |
| 316 | First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572. | 1.4 | 50 |
| 317 | Search for $B_s^0 \rightarrow \tau^+ \tau^-$ and $B^0 \rightarrow \tau^+ \tau^-$ Decays in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 107, 1501802. | 1.6 | 50 |
| 318 | Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 50 |
| 319 | Measurement of differential cross sections for top quark pair production using the $l\bar{l}\tau^+\tau^-$ final state in proton-proton collisions at 13 TeV . Physical Review D, 2017, 95, . | 1.6 | 50 |
| 320 | Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802. | 2.9 | 50 |
| 321 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 564. | 1.4 | 50 |
| 322 | Evidence for Quark-Hadron Duality in the Proton Spin Asymmetry A1. Physical Review Letters, 2003, 90, 092002. | 2.9 | 49 |
| 323 | First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at $\sqrt{s}=0.9$ and 2.36 TeV at the LHC. Physical Review Letters, 2010, 105, 032001. | 2.9 | 49 |
| 324 | Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 49 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 325 | Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy. Physical Review Letters, 2012, 109, 071803. | 2.9 | 49 |
| 326 | Search for leptonic decays of W bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 49 |
| 327 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1. | 1.4 | 49 |
| 328 | Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 83-104. | 1.5 | 49 |
| 329 | Search for an $A_{\mu} \rightarrow \mu \nu$ gauge boson using $Z \rightarrow \mu \mu$ events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368. | 1.5 | 49 |
| 330 | Q^2 Dependence of Nuclear Transparency for Exclusive ρ^0 Production. Physical Review Letters, 2003, 90, 052501. | 2.9 | 48 |
| 331 | Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 700, 187-206. | 1.6 | 48 |
| 332 | Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 48 |
| 333 | Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 48 |
| 334 | Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2017, 96, 012001. | 1.6 | 48 |
| 335 | Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 121, 082301. | 2.9 | 48 |
| 336 | Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 121, 082301. | 2.9 | 48 |
| 337 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364. | 1.4 | 48 |
| 338 | Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2011, 106, 211802. | 2.9 | 47 |
| 339 | Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 47 |
| 340 | Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2013, 111, 221801. | 1.5 | 47 |
| 341 | Search for "Top Squarks" in $t\bar{t}$ Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2013, 111, 221801. | 2.9 | 47 |
| 342 | Measurement of Prompt $t\bar{t}$ Production in $t\bar{t}$ Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2013, 111, 221801. | 2.9 | 47 |
| 342 | Yield Ratios in Pb-Pb and p-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 121, 082301. | 2.9 | 47 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 343 | Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV. Physical Review D, 2016, 94, . Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166. | 1.6 | 47 |
| 344 | Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166. | 1.5 | 47 |
| 345 | Pileup mitigation at CMS in 13 TeV data. Journal of Instrumentation, 2020, 15, P09018-P09018. | 2.9 | 47 |
| 346 | Determination of the deep inelastic contribution to the generalised Gerasimov-Drell-Hearn integral for the proton and neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 444, 531-538. | 1.5 | 46 |
| 347 | Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 46 |
| 349 | Measurement of the Polarization of Bosons with Large Transverse Momenta in pp collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 107, 021802. | 2.9 | 46 |
| 350 | Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 46 |
| 351 | Measurement of the ratio $\frac{\sigma(\text{B} \rightarrow \text{t})}{\sigma(\text{B} \rightarrow \text{c})}$ in pp collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2013, 111, 021802. | | |
| 352 | | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 361 | Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 45 |
| 362 | Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 103-121. | 1.5 | 45 |
| 363 | Angular analysis and branching fraction measurement of the decay $B \rightarrow K^* \ell^+ \ell^-$ and $B \rightarrow K^* \ell^+ \ell^- \gamma$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 77-100. | 1.5 | 45 |
| 364 | Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 207-232. | 1.5 | 45 |
| 365 | Measurement of associated production of vector bosons and top quark-antiquark pairs in $\sqrt{s} = 7 \text{ TeV}$ collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 726, 103-121. | 2.9 | 45 |
| 366 | Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802. | 2.9 | 45 |
| 368 | Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 143-163. | 1.5 | 45 |
| 369 | Search for neutral resonances decaying into a Z boson and a pair of b jets or $\tau^+ \tau^-$, leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 369-394. | 1.5 | 45 |
| 370 | Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 682-705. | 1.5 | 45 |
| 371 | Spin density matrix elements in exclusive $\bar{t}t$ electroproduction on ^1H and ^2H targets at 27.5 GeV beam energy. European Physical Journal C, 2009, 62, 659-695. | 1.4 | 44 |
| 372 | Search for microscopic black holes in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 44 |
| 373 | Inclusive Search for Supersymmetry Using Razor Variables in $\sqrt{s} = 7 \text{ TeV}$ Collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 716, 103-121. | 2.9 | 44 |
| 374 | Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in $\sqrt{s} = 7 \text{ TeV}$ Collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 716, 103-121. | 2.9 | 44 |
| 375 | Search for a light charged Higgs boson decaying to $c \bar{s}$ at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1-37. | 1.6 | 44 |
| 376 | Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801. | 2.9 | 44 |
| 377 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 151. | 1.4 | 44 |
| 378 | Search for lepton flavour violating decays of the Higgs boson to $e\bar{\nu}_\tau$, and $e\bar{\nu}_\mu$ in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 472-500. | 1.5 | 44 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 379 | Study of Z boson production in pPb collisions at $\sqrt{s} = 8.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 26-57. | 1.5 | 44 |
| 380 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140. | 1.4 | 44 |
| 381 | Search for the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 102-124. | 1.5 | 44 |
| 382 | Search for pair-produced dijet resonances in four-jet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2014, 74, 3060. | 2.9 | 43 |
| 383 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060. | 1.4 | 43 |
| 384 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 43 |
| 385 | Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$. Physical Review D, 2015, 92, . | 1.6 | 43 |
| 386 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325. | 1.4 | 43 |
| 387 | Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2016, 93, . | 1.6 | 43 |
| 388 | Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 102-124. | 1.5 | 43 |
| 389 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 43 |
| 390 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two \bar{l} , leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488. | 1.5 | 43 |
| 391 | Subleading-twist effects in single-spin asymmetries in semi-inclusive deep-inelastic scattering on a longitudinally polarized hydrogen target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 622, 14-22. | 1.5 | 42 |
| 392 | Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 42 |
| 393 | Study of W boson production in pPb collisions at $\sqrt{s} = 8.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 759, 565-586. | 1.5 | 42 |
| 394 | Evidence for exclusive $\hat{t}\hat{t}^* W + W \hat{\tau}\hat{\tau}^*$ production and constraints on anomalous quartic gauge couplings in pp collisions at $s = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 42 |
| 395 | Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 42 |
| 396 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 42 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 397 | Search for Quark Compositeness with the Dijet Centrality Ratio in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 2.9 | 41 |
| 398 | Search for Stopped Gluinos in pp collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 106, 011801. $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 2.9 | 41 |
| 399 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 1.6 | 41 |
| 400 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 1.6 | 41 |
| 401 | Search for fractionally charged particles in pp collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 106, 011801. $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 1.5 | 41 |
| 402 | Search for fractionally charged particles in pp collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2011, 106, 011801. $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 1.6 | 41 |
| 403 | Reevaluation of the parton distribution of strange quarks in the nucleon. Physical Review D, 2014, 89, . | 1.6 | 41 |
| 404 | Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2016, 93, . $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 1.6 | 41 |
| 405 | Measurement of the $t\bar{t}$ production cross section in the e^+e^- channel in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 41 |
| 406 | Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ and 13 TeV. European Physical Journal C, 2016, 76, 128. | 1.4 | 41 |
| 407 | Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 41 |
| 408 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 398-423. | 1.5 | 41 |
| 409 | Search for same-sign top-quark pair production at $\sqrt{s}=7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 40 |
| 410 | Beam-helicity asymmetry arising from deeply virtual Compton scattering measured with kinematically complete event reconstruction. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 40 |
| 411 | Measurement of four-jet production in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2014, 89, . $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 1.6 | 40 |
| 412 | Measurement of the $t\bar{t}$ production cross section using events in the e^+e^- final state in pp collisions at $\sqrt{s}=13$ and 8 TeV. European Physical Journal C, 2017, 77, 172. | 1.4 | 40 |
| 413 | Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 1-24. | 1.5 | 40 |
| 414 | Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2017, 119, 221802. $\frac{d\sigma}{d\Omega} \propto \frac{1}{s} \left(\frac{d\sigma}{d\Omega} \right)_{\text{SM}}$ | 2.9 | 40 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 415 | Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. <i>Physical Review Letters</i> , 2018, 120, 071802. | 2.9 | 40 |
| 416 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. <i>European Physical Journal C</i> , 2018, 78, 789. | 1.4 | 40 |
| 417 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton-jets channel. <i>European Physical Journal C</i> , 2019, 79, 313. | 1.4 | 40 |
| 418 | Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 1. | 1.6 | 40 |
| 419 | Search for Higgs boson pair production in pp collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2019, 122, 111801. | 1.5 | 40 |
| 420 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 124, 071801. | 1.5 | 40 |
| 421 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 378. | 1.4 | 40 |
| 422 | Single-spin azimuthal asymmetry in exclusive electroproduction of mesons on transversely polarized protons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 682, 345-350. | 1.5 | 39 |
| 423 | Measurement of W^+W^- and Z^0 production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 701, 535-555. | 1.5 | 39 |
| 424 | Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2011, 2011, 1. | 1.6 | 39 |
| 425 | Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 1.6 | 39 |
| 426 | Measurement of the Z^0 -b-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 1.6 | 39 |
| 427 | Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 39 |
| 428 | Measurement of the ZZ production cross section and search for anomalous couplings in 2γ , $2\gamma^*$, $\gamma\gamma$ final states in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 39 |
| 429 | Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1. | 1.6 | 39 |
| 430 | Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 752-776. | 1.3 | 39 |
| 431 | Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at the LHC. <i>Physical Review Letters</i> , 2018, 120, 091801. | 2.9 | 39 |
| 432 | Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 965. | 1.4 | 39 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 433 | Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle s \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{\Lambda} \langle \text{mml:mtext} \rangle \text{TeV} \langle \text{mml:math} \rangle$. Physical Review D, 2018, 98, . | 1.6 | 39 |
| 434 | Measurement of azimuthal asymmetries with respect to both beam charge and transverse target polarization in exclusive electroproduction of real photons. Journal of High Energy Physics, 2008, 2008, 066-066. | 1.6 | 38 |
| 435 | Measurement of the charge ratio of atmospheric muons with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 83-104. | 1.5 | 38 |
| 436 | Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 38 |
| 437 | First measurement of hadronic event shapes in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 48-67. | 1.5 | 38 |
| 438 | Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 38 |
| 439 | Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with a lepton in the final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 207-220. | 1.5 | 38 |
| 440 | Transverse target single-spin asymmetry in inclusive electroproduction of charged pions and kaons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 183-190. | 1.5 | 38 |
| 441 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 845. | 1.4 | 38 |
| 442 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 636. | 1.4 | 38 |
| 443 | Suppression of Excited \bar{P} States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s} = 2.76 \text{ TeV}$. Physical Review Letters, 2018, 120, 142301. | 2.9 | 38 |
| 444 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying \bar{t} , leptons at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 38 |
| 445 | Production and the \bar{P} Structure of the Yukawa \bar{P} . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 440, 338-347. | 2.9 | 38 |
| 446 | Optical characterization of n=1.03 silica aerogel used as radiator in the RICH of HERMES. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 440, 338-347. | 0.7 | 37 |
| 447 | Measurement of the $\text{tar}\{t\}$ production cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, 71, 1. | 1.4 | 37 |
| 448 | Measurement of the $b\bar{b}$ cross section and the \bar{P} structure of the Yukawa \bar{P} . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 440, 338-347. | 1.5 | 37 |
| 449 | Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 204-225. | 1.5 | 37 |
| 450 | Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 204-225. | 1.5 | 37 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 451 | <p>ment of the W^+Z and $W^+Z\gamma$ inclusive cross sections in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.</p> | 1.6 | 37 |
| 452 | <p>Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.</p> | 1.6 | 37 |
| 453 | | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 469 | Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134985. | 1.5 | 36 |
| 470 | Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134985. | 1.5 | 36 |
| 471 | Search for anomalous electroweak production and search for new physics in WZ + two jets events in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134985. | 1.5 | 36 |
| 472 | Measurement of the cross section for top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134985. | 1.6 | 35 |
| 473 | Measurement of the top-quark mass in all-jets $t\bar{t}$ events in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2758. | 1.6 | 35 |
| 474 | Measurement of the top-quark mass in all-jets $t\bar{t}$ events in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2758. | 1.4 | 35 |
| 475 | Search for heavy Majorana neutrinos in $e^+e^- \rightarrow e^+e^+ \nu \nu$ jets and $e^+e^- \rightarrow e^+e^- \nu \nu$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 35 |
| 476 | Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 103-129. | 1.5 | 35 |
| 477 | Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 111802. | 2.9 | 35 |
| 478 | Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 35 |
| 479 | Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 35 |
| 480 | Measurement of exclusive Υ photoproduction from protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277. | 1.4 | 35 |
| 481 | Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 269. | 1.4 | 35 |
| 482 | Search for pair production of vectorlike quarks in the fully hadronic final state. Physical Review D, 2019, 100, . | 1.6 | 35 |
| 483 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488. | 1.4 | 35 |
| 484 | Search for Three-jet Resonances in pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2011, 107, 101801. | 2.9 | 34 |
| 485 | Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 34 |
| 486 | Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 34 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 487 | Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable \hat{t} . Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 34 |
| 488 | Search for a W boson decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87. | 1.5 | 34 |
| 489 | Search for $Z\ell^2$ resonances decaying to dilepton+jet final states in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 87. | 1.6 | 34 |
| 490 | Search for anomalous quartic gauge couplings in WZ production and constraints on anomalous quartic gauge couplings in WZ production. | 1.6 | 34 |
| 491 | Searches for supersymmetry using the M_{T2} variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 34 |
| 492 | Measurements of the $t\bar{t}$ production cross section and $t\bar{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379. | 1.5 | 34 |
| 493 | Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 116, 052002. | 2.9 | 34 |
| 494 | Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379. | 1.4 | 34 |
| 495 | Measurements of the $t\bar{t}$ production cross section in lepton+jet final states in pp collisions at $\sqrt{s} = 8$ TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15. | 1.4 | 34 |
| 496 | Measurement of the cross section for electroweak production of $Z\ell^2$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2017, 95, 114011. | 1.5 | 34 |
| 497 | Measurements of Squark and Gluino Production Cross Sections and $t\bar{t}$ Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 770, 380-402. | 1.6 | 34 |
| 498 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two ℓ , leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 34 |
| 499 | Measurement of the top quark mass with lepton+jet final states using p_T collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 891. | 1.4 | 34 |
| 500 | Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 34 |
| 501 | Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90. | 1.4 | 34 |
| 502 | Search for vectorlike leptons in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 100, . | 1.6 | 34 |
| 503 | Search for a two-photon exchange contribution to inclusive deep-inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 682, 351-354. | 1.5 | 33 |
| 504 | Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7-13$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 33 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 505 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 33 |
| 506 | Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 255-277. | 1.6 | 33 |
| 507 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371. | 1.4 | 33 |
| 508 | Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 152-180. | 1.5 | 33 |
| 509 | Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $s=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 244-269. | 1.5 | 33 |
| 510 | Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \bar{l} , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 33 |
| 511 | Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Nuclear Physics A, 2019, 79, 702. | 1.4 | 33 |
| 512 | Measurement of the top quark polarization and spin correlations using dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13. | 1.6 | 33 |
| 513 | Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13. | 1.4 | 33 |
| 514 | Search for top squark pair production using dilepton final states in $\sqrt{s}=13$ TeV collisions data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3. | 1.4 | 33 |
| 515 | Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3. | 1.5 | 33 |
| 516 | Measurement of normalized multi-differential cross sections in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1. | 1.4 | 33 |
| 517 | Multidimensional study of hadronization in nuclei. European Physical Journal A, 2011, 47, 1. | 1.0 | 32 |
| 518 | Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 32 |
| 519 | Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 32 |
| 520 | Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3. | 1.6 | 32 |
| 521 | Searches for new physics: Les Houches recommendations for the presentation of LHC results. European Physical Journal C, 2012, 72, 1. | 1.4 | 32 |
| 522 | Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 32 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 523 | Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2674. | 1.4 | 32 |
| 524 | Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 564-586. | 1.5 | 32 |
| 525 | Measurements of the $Z Z$ production cross sections in the $2\mu 2l$ channel in proton-proton collisions at $\sqrt{s} = 7$ TeV. Study of Jet Quenching with 2015. http://www.w3.org/1998/Math/MathML $\int \dots$ | 1.4 | 32 |
| 526 | Correlations in Pb-Pb and pp collisions at $\sqrt{s} = 2.76$ TeV. http://www.w3.org/1998/Math/MathML $\int \dots$ | 2.9 | 32 |
| 527 | Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327. | 1.4 | 32 |
| 528 | Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Using Isolated Photon-Tagged Jets. Physical Review Letters, 2018, 121, 242301. | 2.9 | 32 |
| 529 | Search for pair production of second-generation leptoquarks at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, . | 1.6 | 32 |
| 530 | Charged-particle angular correlations in XeXe collisions at $\sqrt{s} = 1.36$ TeV. Physical Review C, 2019, 100, . | 1.6 | 32 |
| 531 | Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s} = 2.76$ TeV. http://www.w3.org/1998/Math/MathML $\int \dots$ | 1.6 | 32 |
| 532 | Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 31 |
| 533 | GEM based detector for future upgrade of the CMS forward muon system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 383-386. | 0.7 | 31 |
| 534 | Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 31 |
| 535 | Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 66. | 1.4 | 31 |
| 536 | Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 31 |
| 537 | Search for heavy gauge $W\tilde{\chi}^{\pm 2}$ bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s} = 13$ TeV. http://www.w3.org/1998/Math/MathML $\int \dots$ | 1.5 | 31 |
| 538 | Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 31 |
| 539 | Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 31 |
| 540 | Search for pair production of first-generation scalar leptoquarks at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, . | 1.6 | 31 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 541 | A multi-dimensional search for new heavy resonances decaying to boosted W or Z boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237. | 1.4 | 31 |
| 542 | Longitudinal spin transfer to the Λ hyperon in semiinclusive deep-inelastic scattering. Physical Review D, 2006, 74, . | 1.6 | 30 |
| 543 | Exclusive electroproduction on transversely polarized protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 679, 100-105. | 1.5 | 30 |
| 544 | Nuclear-mass dependence of azimuthal beam-helicity and beam-charge asymmetries in deeply virtual Compton scattering. Physical Review C, 2010, 81, . | 1.1 | 30 |
| 545 | Measurement of Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 30 |
| 546 | Search for a heavy bottom-like quark in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.5 | 30 |
| 547 | Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 30 |
| 548 | Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q\bar{q}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 30 |
| 549 | Measurement of the W-boson helicity in top-quark decays from W production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 30 |
| 550 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 30 |
| 551 | Measurements of spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 30 |
| 552 | Search for massive WH resonances decaying into the $b\bar{b}$ final state at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 237. | 1.4 | 30 |
| 553 | Inclusive and differential measurements of the B production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751. | 1.5 | 30 |
| 554 | Inclusive and differential measurements of the B production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751. | 1.5 | 30 |
| 555 | Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751. | 1.4 | 30 |
| 556 | Measurement of differential cross sections for the production of top quark pairs and of additional jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751. | 1.6 | 30 |
| 557 | Study on jet quenching with Λ production in p+Pb and pp collisions. Physical Review Letters, 2018, 120, 142301. | 1.6 | 30 |
| 558 | Observation of Single Top Quark Production in Association With \bar{a} Boson in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 132003. | 2.9 | 30 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 559 | Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, . | 1.6 | 30 |
| 560 | Single-spin azimuthal asymmetry in exclusive electroproduction of \bar{D}^* mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 535, 85-92. | 1.5 | 29 |
| 561 | Measurement of azimuthal asymmetries associated with deeply virtual Compton scattering on a longitudinally polarized deuterium target. Nuclear Physics B, 2011, 842, 265-298. | 0.9 | 29 |
| 562 | Performance of Glass Resistive Plate Chambers for a high-granularity semi-digital calorimeter. Journal of Instrumentation, 2011, 6, P02001-P02001. | 0.5 | 29 |
| 563 | Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 29 |
| 564 | Search for a $W \rightarrow \ell \bar{\nu}_\ell$ or Techni- W decaying into $W \rightarrow \ell \bar{\nu}_\ell$ at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 2.9 | 29 |
| 565 | Measurement of the virtual-photon asymmetry A_2 and the spin-structure function g_2 of the proton. European Physical Journal C, 2012, 72, 1. | 1.5 | 29 |
| 566 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372. | 1.4 | 29 |
| 567 | Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 29 |
| 568 | A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable. European Physical Journal C, 2017, 77, 294. | 1.4 | 29 |
| 569 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 29 |
| 570 | Search for lepton flavour violating decays of the Higgs boson to $\tau^+ \tau^-$, and $e \bar{\nu}_e$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |
| 571 | Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |
| 572 | Bose-Einstein correlations in pp, and PbPb collisions at $\sqrt{s} = 2.76$ TeV. Physical Review C, 2018, 97, . | 1.1 | 29 |
| 573 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280. | 1.4 | 29 |
| 574 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280. | 1.4 | 29 |
| 575 | Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 273-294. | 1.5 | 28 |
| 576 | Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 273-294. | 1.5 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 577 | Forward "backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 752-772. | 1.5 | 28 |
| 578 | Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 107-131. | 1.6 | 28 |
| 579 | Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, . | 1.6 | 28 |
| 580 | Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, . | 1.6 | 28 |
| 581 | Measurements of $\sqrt{s}=13$ TeV differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 28 |
| 582 | Search for $\mathcal{B} \rightarrow \mu\mu$ production in the $\mathcal{B} \rightarrow \mu\mu$ decay channel with leptonic $\mathcal{B} \rightarrow \mu\mu$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 28 |
| 583 | Search for $\mathcal{B} \rightarrow \mu\mu$ production in the $\mathcal{B} \rightarrow \mu\mu$ decay channel with leptonic $\mathcal{B} \rightarrow \mu\mu$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.5 | 28 |
| 584 | Production of $\mathcal{B} \rightarrow \mu\mu$ in proton-proton and lead-lead collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.5 | 28 |
| 585 | Measurements of differential Z-boson production cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 28 |
| 586 | Search for a $\mathcal{B} \rightarrow \mu\mu$ in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.5 | 27 |
| 587 | Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 27 |
| 588 | Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 27 |
| 589 | Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2016, 93, . | 1.6 | 27 |
| 590 | Transverse momentum spectra of inclusive b jets in pPb collisions at $\sqrt{s}=5.02$ TeV. Physical Review D, 2016, 93, . | 1.5 | 27 |
| 591 | Search for massive resonances decaying into WZ in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.5 | 27 |
| 592 | Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 27 |
| 593 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.4 | 27 |
| 594 | Search for massive resonances decaying into WZ in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 27 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 595 | A search for pair production of new light bosons decaying into muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 131-154. | 1.5 | 27 |
| 596 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027. | 0.5 | 27 |
| 597 | Measurement of the $\Upsilon(1S)$ pair production cross section and search for resonances decaying to $\Upsilon(1S) \rightarrow \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135509. | 1.5 | 27 |
| 598 | Search for new neutral Higgs bosons through the $\text{ZZ} \rightarrow \text{ZZ} \rightarrow \text{ZZ}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 27 |
| 599 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 27 |
| 600 | Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 26 |
| 601 | Search for a heavy gauge boson Z' in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.5 | 26 |
| 602 | Combined search for the quarks of a sequential fourth generation. Physical Review D, 2012, 86, . | 1.6 | 26 |
| 603 | Search for resonant $\text{t}\bar{\text{t}}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 26 |
| 604 | Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 26 |
| 605 | Search for three-jet resonances in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.5 | 26 |
| 606 | Search for the standard model Higgs boson in the $\text{H} \rightarrow \text{ZZ} \rightarrow \text{ZZ}$ channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 26 |
| 607 | Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 26 |
| 608 | Search for $W \rightarrow \text{tb}$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 26 |
| 609 | Construction and commissioning of a technological prototype of a high-granularity semi-digital hadronic calorimeter. Journal of Instrumentation, 2015, 10, P10039-P10039. | 0.5 | 26 |
| 610 | Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 26 |
| 611 | Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2016, 76, 1. | 1.4 | 26 |
| 612 | Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 533-558. | 1.5 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 613 | Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 26 |
| 614 | Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134876. | 1.5 | 26 |
| 615 | Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s}=0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 25 |
| 616 | Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 512-534. | 1.5 | 25 |
| 617 | Search for a low-mass pseudoscalar Higgs boson produced in association with a W boson in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 512-534. | 1.5 | 25 |
| 618 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 325. | 1.4 | 25 |
| 619 | Search for a low-mass pseudoscalar Higgs boson produced in association with a W boson in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 512-534. | 1.5 | 25 |
| 620 | Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 268-290. | 1.5 | 25 |
| 621 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 25 |
| 622 | Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 25 |
| 623 | Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134876. | 1.6 | 25 |
| 624 | Search for lepton flavor violating decays of the Higgs boson in the $h \rightarrow \tau\tau$ channel in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 268-290. | 1.6 | 25 |
| 625 | Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2013, 87, 112001. | 1.6 | 24 |
| 626 | Measurement of the $t\bar{t}$ production cross section in the $t\bar{t} + \text{jets}$ channel in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 1. | 1.4 | 24 |
| 627 | Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 24 |
| 628 | Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 24 |
| 629 | Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 24 |
| 630 | Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 79-99. | 1.5 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 631 | Measurement of the integrated and differential $t\bar{t}$ production cross sections for high- p_T top quarks in pp collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2016, 94, . | 1.6 | 24 |
| 632 | Measurement of the charge asymmetry in top quark pair production in collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2016, 93, . | 1.6 | 24 |
| 633 | Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2016, 93, . | 1.6 | 24 |
| 634 | Measurements of the charge asymmetry in top quark pair production in collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2016, 93, . | 1.5 | 24 |
| 635 | Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2016, 93, . | 2.9 | 24 |
| 636 | Measurement of the differential inclusive B^+ hadron cross sections in pp collisions at $\sqrt{s}=8\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 435-456. | 1.5 | 24 |
| 637 | Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2018, 98, . | 2.9 | 24 |
| 638 | Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2018, 98, . | 1.6 | 24 |
| 639 | Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review D, 2018, 98, . | 1.6 | 24 |
| 640 | Search for new long-lived particles at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 432-454. | 1.5 | 24 |
| 641 | Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 24 |
| 642 | Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $\sqrt{s}=2.76\text{ TeV}$. Physical Review Letters, 2019, 122, 152001. | 2.9 | 24 |
| 643 | Study of excited $b\bar{b}0$ states decaying to $b\bar{b}0\gamma$ in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135345. | 1.5 | 24 |
| 644 | Measurements of the production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s}=13\text{ TeV}$. European Physical Journal C, 2021, 81, 200. | 1.4 | 24 |
| 645 | Double-Hadron Leptoproduction in the Nuclear Medium. Physical Review Letters, 2006, 96, 162301. | 2.9 | 23 |
| 646 | Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s}=7\text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 23 |
| 647 | Search for excited quarks in the final state in proton-proton collisions at $\sqrt{s}=8\text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 274-293. | 1.5 | 23 |
| 648 | Measurement of WZ and ZZ production in pp collisions at $\sqrt{s}=8\text{ TeV}$ in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973. | 1.4 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 649 | Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 23 |
| 650 | Measurement of the jet mass in highly boosted $\overline{\text{t}}\text{t}$ events from pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 467. | 1.4 | 23 |
| 651 | Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001. | 2.9 | 23 |
| 652 | Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 23 |
| 653 | Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 23 |
| 654 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 354. | 1.4 | 23 |
| 655 | Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746. | 1.4 | 23 |
| 656 | Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 23 |
| 657 | Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 23 |
| 658 | Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks. Physical Review D, 2018, 97, . | 1.6 | 23 |
| 659 | Search for resonant $\overline{\text{t}}\text{t}$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 23 |
| 660 | Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 231803. | 2.9 | 23 |
| 661 | Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 752. | 1.4 | 23 |
| 662 | Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 23 |
| 663 | Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2022, 128, 032001. | 2.9 | 23 |
| 664 | Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 22 |
| 665 | Inclusive measurements of inelastic electron and positron scattering from unpolarized hydrogen and deuterium targets. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 22 |
| 666 | Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 42-61. | 1.5 | 22 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 667 | Search for physics beyond the standard model in events with \bar{l} , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2493. | 1.4 | 22 |
| 668 | Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 815-840. | 1.5 | 22 |
| 669 | Measurement of the ZZ production cross section and $Z \rightarrow \tau^+ \tau^-$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 280-303. | 1.6 | 22 |
| 670 | Search for $t \bar{t} \rightarrow \text{hadrons}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 671 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 672 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 673 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying \bar{l} , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 674 | Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 062002. | 2.9 | 22 |
| 675 | Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189. | 1.4 | 22 |
| 676 | Observation of a New Excited Beauty Strange Baryon Decaying to $\bar{l} b s$. Physical Review Letters, 2021, 126, 252003. | 2.9 | 22 |
| 677 | Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370. | 1.4 | 22 |
| 678 | Azimuthal single- and double-spin asymmetries in semi-inclusive deep-inelastic lepton scattering by transversely polarized protons. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 22 |
| 679 | Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2011, 106, 201802. | 2.9 | 21 |
| 680 | Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28. | 1.5 | 21 |
| 681 | Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 21 |
| 682 | Search for supersymmetry in events with a \bar{l} , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 21 |
| 683 | Search for beyond the standard model Higgs bosons decaying into a $b \bar{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 21 |
| 684 | Search for a Light Charged Higgs Boson Decaying to a $W C$ or $W P$ Pair in Final States with e . Journal of High Energy Physics, 2018, 2018, 1. | 2.9 | 21 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 685 | Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 172-194. | 1.5 | 21 |
| 686 | Constraints on anomalous $H \rightarrow VV$ couplings from the production of Higgs bosons decaying to lepton pairs. Physical Review D, 2019, 100, . | 1.6 | 21 |
| 687 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10. | 1.3 | 21 |
| 688 | Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 21 |
| 689 | Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, . | 1.6 | 21 |
| 690 | Observation of electroweak production of $W\tau^3$ with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135988. | 1.5 | 21 |
| 691 | The Q ² -dependence of the generalised Gerasimov-Drell-Hearn integral for the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 494, 1-8. | 1.5 | 20 |
| 692 | Search for an exotic $S=2, Q=2$ baryon resonance at a mass near 1862 MeV in quasireal photoproduction. Physical Review D, 2005, 71, . | 1.6 | 20 |
| 693 | Characterization of GEM detectors for application in the CMS muon detection system. , 2010, , . | | 20 |
| 694 | Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 20 |
| 695 | Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 20 |
| 696 | Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404. | 1.4 | 20 |
| 697 | Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1252-1272. | 1.5 | 20 |
| 698 | Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.5 | 20 |
| 699 | Measurements of the τ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 20 |
| 700 | Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 20 |
| 701 | Meson Production in $p\bar{p}$ Collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 2.9 | 20 |
| 702 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 20 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 703 | Measurements of the charm jet cross section and nuclear modification factor in pp collisions at $\sqrt{s} = 13$ TeV. <i>Physical Letters, Section B: Nuclear, Elementary Particle and High Energy Physics</i> , 2017, 772, 306-320. | 2.0 | 20 |
| 704 | Search for $t\bar{t}H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 20 |
| 705 | Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 20 |
| 706 | Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2019, 99, . | 1.6 | 20 |
| 707 | Search for rare decays of Z and Higgs bosons to $\psi\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 94. | 1.4 | 20 |
| 708 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2019, 100, . | 1.6 | 20 |
| 709 | Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2019, 123, 171801. | 2.9 | 20 |
| 710 | Search for a light charged Higgs boson in the $t\bar{t}H$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2020, 101, 113001. | 1.6 | 20 |
| 711 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 20 |
| 712 | A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 20 |
| 713 | Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 171801. | 1.5 | 20 |
| 714 | Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2021, 104, . | 1.6 | 20 |
| 715 | Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 19 |
| 716 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into \tilde{l}, l , leptons in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1. | 1.6 | 19 |
| 717 | Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2017, 95, . | 1.6 | 19 |
| 718 | Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS. <i>Physical Review C</i> , 2017, 96, . | 1.6 | 19 |
| 719 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 19 |
| 720 | Observation of the $\tilde{b}(3P)$ and $\tilde{b}(2(3P))$ and Measurement of their Masses. <i>Physical Review Letters</i> , 2018, 121, 092002. | 2.9 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 721 | Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 132992. | 1.5 | 19 |
| 722 | Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 241801. | 2.9 | 19 |
| 723 | Search for MSSM Higgs bosons decaying to $b\bar{b}$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 132992. | 1.5 | 19 |
| 724 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723. | 1.4 | 19 |
| 725 | Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2012, 86, . | 1.6 | 18 |
| 726 | Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 18 |
| 727 | Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2013, 110, 042301. | 1.5 | 18 |
| 728 | Spin density matrix elements in exclusive Ω^- electroproduction on ^1H and ^2H targets at 27.5 GeV beam energy. European Physical Journal C, 2014, 74, 1. | 1.4 | 18 |
| 730 | Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 503-525. | 1.5 | 18 |
| 731 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 18 |
| 732 | Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460. | 1.4 | 18 |
| 733 | Search for $W\bar{c}c$ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 196-216. | 1.5 | 18 |
| 734 | Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 13$ TeV using the $\hat{t} = T$ variable. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 403-430. | 1.5 | 18 |
| 735 | Measurement of normalized differential $\overline{\sigma}(\text{t}\bar{\text{t}})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 18 |
| 736 | Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 18 |
| 737 | Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 739 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20. | 1.4 | 18 |
| 740 | Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 18 |
| 741 | Observation of nuclear modifications in W^{\pm} boson production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048. | 1.5 | 18 |
| 742 | Running of the top quark mass from proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135263. | 1.5 | 18 |
| 743 | MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 629. | 1.4 | 18 |
| 744 | Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135992. | 1.5 | 18 |
| 745 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970. | 1.4 | 18 |
| 746 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290. | 1.4 | 18 |
| 747 | Search for pair production of second-generation scalar top quarks in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201803. | 2.9 | 17 |
| 748 | Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 17 |
| 749 | Search for large color dimensions in dijet and dielectron events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.5 | 17 |
| 750 | Measurement of the Λ_{b}^0 lifetime in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 17 |
| 751 | Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 17 |
| 752 | Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901. | 1.4 | 17 |
| 753 | The time structure of hadronic showers in highly granular calorimeters with tungsten and steel absorbers. Journal of Instrumentation, 2014, 9, P07022-P07022. | 0.5 | 17 |
| 754 | Measurement of the ratio of the production cross sections times branching fractions of B_c^{\pm} and $B_{s,c}^{\pm}$ and $B_{s,c}^{\pm} \rightarrow B_c^{\pm} \tau^{\pm} \nu_{\tau}$. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 17 |
| 755 | Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 17 |
| 756 | Measurement of the inelastic cross section in proton-proton lead collisions at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 641-662. | 1.6 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 757 | Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 17 |
| 758 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 137-162. | 1.5 | 17 |
| 759 | Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 17 |
| 760 | Measurement of electroweak-induced production of $W\hat{1}^3$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 17 |
| 761 | Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 17 |
| 762 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 763 | Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\text{NN}}} = 5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 764 | Angular analysis of the decay $B \rightarrow K^* K^* \gamma$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2018, 98, . | 1.6 | 17 |
| 765 | Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2018, 98, . | 1.6 | 17 |
| 766 | Search for $Z\hat{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 767 | Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 768 | Search for the decay of a Higgs boson in the $h \rightarrow a \gamma \gamma$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 769 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 697. | 1.4 | 17 |
| 770 | Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1. | 1.4 | 17 |
| 771 | Measurement of the associated production of a single top quark and a Z boson in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 358-364. | 1.6 | 17 |
| 772 | Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 17 |
| 773 | Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134952. | 1.5 | 17 |
| 774 | Studies of Beauty Suppression via Nonprompt Mesons in Pb-Pb Collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Physical Review Letters, 2019, 123, 022001. | 2.9 | 17 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 775 | Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2021, 127, 261804. | 2.9 | 17 |
| 776 | Double-spin asymmetry in the cross section for exclusive $\bar{t}t$ production in lepton-proton scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 513, 301-310. | 1.5 | 16 |
| 777 | Transverse polarization of Λ hyperons in quasidee photoproduction. Physical Review D, 2007, 76, . | 1.6 | 16 |
| 778 | Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 16 |
| 779 | Measurement of the $\bar{t}t$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 16 |
| 780 | Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 16 |
| 781 | Measurement of jet multiplicity distributions in $\bar{t}t$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3014. | 1.4 | 16 |
| 782 | Measurement of the production cross section ratio $\sigma(\bar{t}t(1P))/\sigma(\bar{t}t(1P))$ in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402. | 1.5 | 16 |
| 783 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s} = 8$ TeV. Measurements of the $\bar{t}t$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 536. | 1.4 | 16 |
| 784 | Measurement of the $\bar{t}t$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 536. | 1.4 | 16 |
| 785 | Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 536. | 1.4 | 16 |
| 786 | Search for excited leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 16 |
| 787 | Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 16 |
| 788 | Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 92. | 1.4 | 16 |
| 789 | Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 78, 287. | 1.5 | 16 |
| 790 | Measurements of the $\bar{t}t$ production cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287. | 1.5 | 16 |
| 791 | Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287. | 1.4 | 16 |
| 792 | Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2018, 98, . | 1.6 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 793 | Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 16 |
| 794 | Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, . | 1.6 | 16 |
| 795 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 886. | 1.4 | 16 |
| 796 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}}\text{b})$ cross section in the full kinematic range using the four-lepton final state. Physical Review D, 2021, 104, . | 1.5 | 16 |
| 797 | Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. Physical Review D, 2021, 104, . | 1.6 | 16 |
| 798 | Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2021, 127, 122001. | 2.9 | 16 |
| 799 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}}\text{b})$ cross sections in the full kinematic range using the four-lepton final state. Physical Review D, 2021, 104, . | 1.6 | 16 |
| 800 | Ratios of helicity amplitudes for exclusive $\bar{t}t$ electroproduction. European Physical Journal C, 2011, 71, 1. | 1.4 | 15 |
| 801 | Study of the Dijet Mass Spectrum in $pp \rightarrow W + \text{jets}$ Events at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2012, 109, 251801. | 1.6 | 15 |
| 802 | Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 15 |
| 803 | Search for charge asymmetric production of $\text{t}\bar{\text{t}}\text{b}$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.5 | 15 |
| 804 | Measurement of the mass difference between top and antitop quarks. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 15 |
| 805 | Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 15 |
| 806 | Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 280-301. | 1.5 | 15 |
| 807 | Search for supersymmetry with razor variables in $\text{pp} \rightarrow \text{p}\bar{\text{p}} + \text{jets}$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, 014005. | 1.6 | 15 |
| 808 | Performance of the first prototype of the CALICE scintillator strip electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 278-289. | 0.7 | 15 |
| 809 | Upgrade of the CMS muon system with triple-GEM detectors. Journal of Instrumentation, 2014, 9, C10036-C10036. | 0.5 | 15 |
| 810 | Testing hadronic interaction models using a highly granular silicon-tungsten calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 794, 240-254. | 0.7 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 811 | Measurement of the cross section ratio $\frac{\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})}{\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{b}\bar{\text{b}})}$ at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.5 | 15 |
| 812 | Search for a Higgs boson decaying into $\tau^+\tau^-$ with low dilepton mass in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 341-362. | 1.5 | 15 |
| 813 | Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 15 |
| 814 | Search for Supersymmetry in $\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{b}\bar{\text{b}}$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 151802. | 2.9 | 15 |
| 815 | Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 15 |
| 816 | Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 15 |
| 817 | Measurement of the $\text{t}\bar{\text{t}}$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 15 |
| 818 | Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 15 |
| 819 | Measurement of the polarization and angular parameters in $\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{b}\bar{\text{b}}$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 15 |
| 820 | Search for a singly produced third-generation scalar leptoquark decaying to a \bar{l} , lepton and a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 15 |
| 821 | Measurement of b hadron lifetimes in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 457. | 1.4 | 15 |
| 822 | Measurement of prompt $\tilde{\chi}(2S)$ production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 509-532. | 1.9 | 15 |
| 823 | Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 15 |
| 824 | Layout and assembly technique of the GEM chambers for the upgrade of the CMS first muon endcap station. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 918, 67-75. | 0.7 | 15 |
| 825 | Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau^+\mu^-$, and $e\bar{l}$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 15 |
| 826 | Beam-Induced Nuclear Depolarization in a Gaseous Polarized-Hydrogen Target. Physical Review Letters, 1999, 82, 1164-1168. | 2.9 | 14 |
| 827 | Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.5 | 14 |
| 828 | Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 829 | Measurement of the production cross section for $Z\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $ZZ\gamma$ and $Z\gamma\gamma$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 14 |
| 830 | Search for s channel single top quark production in pp collisions at $s = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 14 |
| 831 | Search for supersymmetry in pp collisions at $s = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 14 |
| 832 | Measurement of spin correlations in $t\bar{t}$ production using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.5 | 14 |
| 833 | Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 9-35. | 1.5 | 14 |
| 834 | Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 80-105. | 1.5 | 14 |
| 835 | Search for associated production of a heavy vector-like quark decaying into a b quark and a W boson in proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 279-307. | 1.5 | 14 |
| 836 | Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau\tau$ at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 14 |
| 837 | Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 14 |
| 838 | Search for black holes and other new phenomena in high-multiplicity final states in proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 279-307. | 1.6 | 14 |
| 839 | Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 14 |
| 840 | Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 14 |
| 841 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 14 |
| 842 | Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 121, 221802. | 2.9 | 14 |
| 843 | Studies of $B_s^0 \rightarrow B_s^- \tau^+ \nu_\tau$ and $B_s^0 \rightarrow B_s^- \mu^+ \nu_\mu$ decays. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 847 | Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 14 |
| 848 | Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, . | 1.6 | 14 |
| 849 | Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 14 |
| 850 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}}=2.76$ and 5.02 TeV collisions. European Physical Journal C, 2020, 80, 534. | 1.4 | 14 |
| 851 | Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 14 |
| 852 | Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2022, 82, 153. | 1.4 | 14 |
| 853 | Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s}=13$ TeV. Physical Review D, 2020, 102, 115001. | 1.6 | 14 |
| 854 | Hard exclusive electroproduction of $\rho(770)$ mesons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2020, 102, 115001. | 1.5 | 13 |
| 855 | Search for light resonances decaying into pairs of muons as a signal of new physics. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 13 |
| 856 | Measurement of the underlying event activity in pp collisions at $\sqrt{s}=0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 13 |
| 857 | Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 13 |
| 858 | Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network. Physical Review D, 2013, 87, . | 1.6 | 13 |
| 859 | Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 13 |
| 860 | Measurement of the top quark mass using charged particles in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2016, 93, . | 1.6 | 13 |
| 861 | Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 13 |
| 862 | Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 363-388. | 1.5 | 13 |
| 863 | Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 13 |
| 864 | Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 865 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 13 |
| 866 | Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 13 |
| 867 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.5 | 13 |
| 868 | Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 13 |
| 871 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 13 |
| 872 | Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 13 |
| 873 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 2.9 | 13 |
| 874 | Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 13 |
| 875 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.5 | 13 |
| 876 | Measurement of the $W\hat{3}$ Production Cross Section in Proton-Proton Collisions at $s=13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002. | 2.9 | 13 |
| 877 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.5 | 13 |
| 878 | Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 13 |
| 879 | Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 13 |
| 880 | Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 13 |
| 881 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.5 | 12 |
| 882 | Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 883 | Search for contact interactions using the inclusive jet spectrum in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 12 |
| 884 | Search for baryon number violation in top-quark decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 173-196. | 1.5 | 12 |
| 885 | Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 12 |
| 886 | Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7 \sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 12 |
| 887 | Search for neutral MSSM Higgs bosons decaying to $\hat{1}/4+\hat{1}/4$ in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2016, 752, 221-246. | 1.5 | 12 |
| 888 | Search for parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 772, 363-387. | 1.6 | 12 |
| 889 | Search for high-mass Z^0 resonances in proton-proton collisions at $\sqrt{s}=13$ TeV using jet substructure techniques. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 363-387. | 1.6 | 12 |
| 890 | Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 95, . | 1.6 | 12 |
| 891 | Tracking within Hadronic Showers in the CALICE SDHCAL prototype using a Hough Transform Technique. Journal of Instrumentation, 2017, 12, P05009-P05009. | 0.5 | 12 |
| 892 | Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 12 |
| 893 | Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 12 |
| 894 | Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 12 |
| 895 | Search for dark matter produced in association with a Higgs boson decaying to $\hat{1}/3$ or $\hat{1}/2, +\hat{1}, \hat{1}$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 12 |
| 896 | An embedding technique to determine $\hat{1}, \hat{1}$ backgrounds in proton-proton collision data. Journal of Instrumentation, 2019, 14, P06032-P06032. | 0.5 | 12 |
| 897 | Search for Higgs and Z boson decays to J/ψ or Y pairs in the four-muon final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134811. | 1.5 | 12 |
| 898 | Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 122, 011803. | 2.9 | 12 |
| 899 | Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1. | 1.4 | 12 |
| 900 | | | |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 901 | Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 12 |
| 902 | Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893. | 1.4 | 12 |
| 903 | Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and Hadronic Physics, 2019, 789, 255-262. | 1.5 | 12 |
| 904 | Constraints on the Energy Loss of a Quark in a Medium from the Measurement of the Single Top Quark Production Cross Section in the t Channel and their Ratio in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 172001. | 1.4 | 12 |
| 905 | Development and validation of HERWIG 7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312. | 1.4 | 12 |
| 906 | Measurement of prompt D0 meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2015, 115, 252301. | 1.5 | 12 |
| 907 | Measurement of the prompt D0 meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and Hadronic Physics, 2015, 346, 302-306. | 1.5 | 12 |
| 908 | Design of a constant fraction discriminator for the VFAT3 front-end ASIC of the CMS GEM detector. Journal of Instrumentation, 2016, 11, C01023-C01023. | 0.5 | 12 |
| 909 | Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 12 |
| 910 | Identification of hadronic tau lepton decays using a deep neural network. Journal of Instrumentation, 2022, 17, P07023. | 0.5 | 12 |
| 911 | Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 11 |
| 912 | Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 11 |
| 913 | Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 11 |
| 914 | Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC. Physical Review D, 2013, 87, . | 1.6 | 11 |
| 915 | Track segments in hadronic showers in a highly granular scintillator-steel hadron calorimeter. Journal of Instrumentation, 2013, 8, P09001-P09001. | 0.5 | 11 |
| 916 | Measurement of the $Z\tilde{\chi}^0_3$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 11 |
| 917 | Search for supersymmetry in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, . | 1.6 | 11 |
| 918 | Search for electroweak production of charginos in final states with two $\tilde{\ell}$, leptons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 919 | Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 336-358. | 1.5 | 11 |
| 920 | Measurement of the semileptonic $t\bar{t} \rightarrow \ell^+ \ell^- \nu \bar{\nu}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 11 |
| 921 | Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s} = 8$ TeV using $H \rightarrow WW$ decays. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 11 |
| 922 | Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 118-143. | 1.5 | 11 |
| 923 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 11 |
| 924 | Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. Journal of Instrumentation, 2018, 13, P10034-P10034. | 0.5 | 11 |
| 925 | Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 11 |
| 926 | Beam-helicity asymmetries for single-hadron production in semi-inclusive deep-inelastic scattering from unpolarized hydrogen and deuterium targets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134886. | 1.5 | 11 |
| 927 | Search for supersymmetry in events with a photon, jets, b -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 444. | 1.4 | 11 |
| 928 | Search for nonresonant Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 11 |
| 929 | Study of the underlying event in top quark pair production in $p\bar{p}$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 123. | 1.4 | 11 |
| 930 | Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 11 |
| 931 | Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134886. | 1.6 | 11 |
| 932 | Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 43. | 1.4 | 11 |
| 933 | Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions. Physical Review Letters, 2022, 128, 122301. | 2.9 | 11 |
| 934 | Construction of the first full-size GEM-based prototype for the CMS high- μ on system. , 2010, , . | | 10 |
| 935 | Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 10 |
| 936 | Search for excited leptons in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 309-329. | 1.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 937 | CMS Resistive Plate Chamber overview, from the present system to the upgrade phase I. Journal of Instrumentation, 2013, 8, P04005-P04005. | 0.5 | 10 |
| 938 | Shower development of particles with momenta from 1 to 10 GeV in the CALICE Scintillator-Tungsten HCAL. Journal of Instrumentation, 2014, 9, P01004-P01004. | 0.5 | 10 |
| 939 | Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $s = 2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 10 |
| 940 | Preliminary results of Resistive Plate Chambers operated with eco-friendly gas mixtures for application in the CMS experiment. Journal of Instrumentation, 2016, 11, C09018-C09018. | 0.5 | 10 |
| 941 | Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 10 |
| 942 | Measurements of the $pp \rightarrow W\gamma$ and $pp \rightarrow Z\gamma$ cross sections and limits on anomalous quartic gauge couplings at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 10 |
| 943 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 10 |
| 944 | Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 10 |
| 945 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2018, 78, 242. | 1.4 | 10 |
| 946 | Search for Higgsino pair production in pp collisions at $\sqrt{s} = 13$ TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $Z/\gamma \rightarrow \tau\tau$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 166-180. | 1.6 | 10 |
| 947 | Measurement of the $\sigma(\text{pp} \rightarrow Z/\gamma \rightarrow \tau\tau)$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\text{pp} \rightarrow Z/\gamma \rightarrow \tau\tau)$. European Physical Journal C, 2018, 78, 708. | 1.4 | 10 |
| 948 | Search for a heavy resonance decaying into a Z boson and a vector boson in the $pp \rightarrow \overline{u}q\overline{q}u$ final state. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 10 |
| 949 | Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 166-180. | 1.6 | 10 |
| 950 | Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2018, 97, 114011. | 1.6 | 10 |
| 951 | Search for the production of $Z/\gamma \rightarrow \tau\tau$ events at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 166-180. | 1.6 | 10 |
| 952 | Search for resonances decaying to a pair of Higgs bosons in the $pp \rightarrow \overline{q}q$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 10 |
| 953 | Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 164-174. | 1.6 | 10 |
| 954 | Strange hadron production in pp and pPb collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2020, 101, 014907. | 1.1 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 955 | Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $s=13$ TeV. Physical Review D, 2020, 102, . | 1.6 | 10 |
| 956 | Measurement of the top quark Yukawa coupling from kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 101801. | 1.6 | 10 |
| 957 | Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 101801. | 1.6 | 10 |
| 958 | Evidence for $\text{ext}\{W\}\text{ext}\{W\}$ production from double-parton interactions in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 1. | 1.4 | 10 |
| 959 | Towards portable muography with small-area, gas-tight glass Resistive Plate Chambers. Journal of Instrumentation, 2020, 15, C10032-C10032. | 0.5 | 10 |
| 960 | Search for heavy resonances decaying to W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 101801. | 1.6 | 10 |
| 961 | Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the final state with two photons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 101801. | 2.9 | 10 |
| 962 | Publisher's Note: Search for Dijet Resonances in $7\sqrt{s}$ TeV Collisions at CMS [Phys. Rev. Lett.105, 211801 (2010)]. Physical Review Letters, 2011, 106, . | 2.9 | 9 |
| 963 | Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the final state with two photons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 710, 1208-1220. | 1.5 | 9 |
| 964 | Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2013, 87, . | 1.6 | 9 |
| 965 | The HERMES recoil detector. Journal of Instrumentation, 2013, 8, P05012-P05012. | 0.5 | 9 |
| 966 | Transverse polarization of hyperons from quasireal photoproduction on nuclei. Physical Review D, 2014, 90, . | 1.6 | 9 |
| 967 | Search for parity-violating supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2016, 116, 101801. | 1.6 | 9 |
| 968 | High rate, fast timing Glass RPC for the high \hat{p}_T CMS muon detectors. Journal of Instrumentation, 2016, 11, C09006-C09006. | 0.5 | 9 |
| 969 | Inclusive search for supersymmetry using razor variables in pp collisions at $s=13$ TeV. Physical Review D, 2017, 95, . | 1.6 | 9 |
| 970 | Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 50-71. | 1.5 | 9 |
| 971 | Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 9 |
| 972 | Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\tau$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 973 | Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1. | 1.4 | 9 |
| 974 | Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1. | 1.4 | 9 |
| 975 | Search for a low-mass \tilde{t}, \tilde{b} , + resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 9 |
| 976 | Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2012, 109, 112301. | 1.5 | 9 |
| 977 | Search for a heavy resonance decaying to a top quark and a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1. | 2.9 | 9 |
| 978 | Multiparticle correlation studies in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review C, 2020, 101, . | 1.1 | 9 |
| 979 | Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688. | 1.4 | 9 |
| 980 | Search for $W\tilde{t}$ bosons decaying to a top and a bottom quark in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136535. | 1.5 | 9 |
| 981 | Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions. Journal of Instrumentation, 2020, 15, P10002-P10002. | 0.5 | 9 |
| 982 | Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of \tilde{t}, \tilde{b} Leptons in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136535. | 2.9 | 9 |
| 983 | Search for a heavy resonance decaying to a top quark and a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1. | 1.5 | 8 |
| 984 | Beam test results for new full-scale GEM prototypes for a future upgrade of the CMS high- μ Muon System. , 2012, , . | | 8 |
| 985 | Uniformity and stability of the CMS RPC detector at the LHC. Journal of Instrumentation, 2013, 8, P03017-P03017. | 0.5 | 8 |
| 986 | Status of the Triple-GEM project for the upgrade of the CMS Muon System. Journal of Instrumentation, 2013, 8, C12031-C12031. | 0.5 | 8 |
| 987 | The upgrade of the CMS RPC system during the first LHC long shutdown. Journal of Instrumentation, 2013, 8, T02002-T02002. | 0.5 | 8 |
| 988 | Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, . | 1.6 | 8 |
| 989 | Searches for $W\tilde{t}$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 8 |
| 990 | Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 315-337. | 1.6 | 8 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 991 | Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 8 |
| 992 | Pseudorapidity and transverse momentum dependence of flow harmonics in p and $PbPb$ collisions. Physical Review C, 2018, 98, . | 1.1 | 8 |
| 993 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 8 |
| 994 | Search for pair production of excited top quarks in the lepton + jets final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 349-370. | 1.5 | 8 |
| 995 | Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 8 |
| 996 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s} = 13$ TeV collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 773. | 1.4 | 8 |
| 997 | Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 8 |
| 998 | Probing the chiral magnetic wave in p and $PbPb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV using charge-dependent azimuthal correlations. Physical Review Letters, 2019, 123, 152301. | 1.1 | 8 |
| 999 | Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, . | 1.5 | 8 |
| 1000 | Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, . | 1.6 | 8 |
| 1001 | Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 8 |
| 1002 | Construction and performance of large-area triple-GEM prototypes for future upgrades of the CMS forward muon system. , 2011, , . | | 7 |
| 1003 | Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 7 |
| 1004 | Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 88, . | 1.6 | 7 |
| 1005 | Measurement of the production cross section of the Higgs boson in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV. Nuclear Physics B, 2013, 956, 1-14. | 0.7 | 7 |
| 1006 | CMS Collaboration. Nuclear Physics A, 2014, 932, 595-620. | 0.6 | 7 |
| 1007 | Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 92, . | 1.6 | 7 |
| 1008 | Search for supersymmetry with photons in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 92, . | 1.6 | 7 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1009 | Quality control and beam test of GEM detectors for future upgrades of the CMS muon high rate region at the LHC. Journal of Instrumentation, 2015, 10, C03039-C03039. | 0.5 | 7 |
| 1010 | Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 7 |
| 1011 | R&D on a new type of micropattern gaseous detector: The Fast Timing Micropattern detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 313-317. | 0.7 | 7 |
| 1012 | Search for leptophobic $Z\tilde{\chi}^0$ bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 563-584. | 1.5 | 7 |
| 1013 | Ratios of helicity amplitudes for exclusive $\gamma^* \rightarrow \pi^0$ electroproduction on transversely polarized protons. European Physical Journal C, 2017, 77, 1. | 1.4 | 7 |
| 1014 | Search for high-mass $Z\tilde{\chi}^0$ resonances in $e^+e^- \rightarrow \tilde{\chi}^0 \tilde{\chi}^0$ and $\tilde{\chi}^0 \tilde{\chi}^0$ final states in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 7 |
| 1015 | Study of Thin Double-Gap RPCs for the CMS Muon System. Journal of the Korean Physical Society, 2018, 73, 1080-1087. | 0.3 | 7 |
| 1016 | Search for excited quarks of light and heavy flavor in $\tilde{q} \rightarrow q + \tilde{\chi}^0$ jet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 390-411. | 1.5 | 7 |
| 1017 | Longitudinal double-spin asymmetries in semi-inclusive deep-inelastic scattering of electrons and positrons by protons and deuterons. Physical Review D, 2019, 99, . | 1.6 | 7 |
| 1018 | Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s} = 13$ TeV via Higgs boson decays to $\tilde{\chi}^0$, leptons. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 7 |
| 1019 | The CMS RPC detector performance and stability during LHC RUN-2. Journal of Instrumentation, 2019, 14, C11012-C11012. | 0.5 | 7 |
| 1020 | Study of central exclusive "Equation missing" \rightarrow production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718. | 1.4 | 7 |
| 1021 | Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001. | 2.9 | 7 |
| 1022 | Measurement of differential $t\bar{t}$ production cross sections using top quarks at large transverse momenta in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129, . | 1.6 | 7 |
| 1023 | Search for Exclusive Diphoton Production at High Mass with Tagged Protons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129, . | 2.9 | 7 |
| 1024 | Measurement of the cross section for production of $\tilde{b} \rightarrow b + \tilde{\chi}^0$ decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 6 |
| 1025 | Search for jet extinction in the inclusive jet- $\tilde{\chi}^0$ production. Journal of High Energy Physics, 2014, 2014, 1. | 1.5 | 6 |
| 1026 | Search for jet extinction in the inclusive jet- $\tilde{\chi}^0$ production. Physical Review D, 2014, 90, . | 1.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1027 | Comparison of the $Z/\hat{\alpha}^- + \text{jets}$ to $\hat{\alpha}^3 + \text{jets}$ cross sections in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 6 |
| 1028 | Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2015, 75, 302. | 1.4 | 6 |
| 1029 | Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 6-31. | 1.5 | 6 |
| 1030 | $\hat{\alpha}(nS)$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 31-52. | 1.5 | 6 |
| 1031 | Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 178-201. | 1.5 | 6 |
| 1032 | Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 479-500. | 1.5 | 6 |
| 1033 | Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 6 |
| 1034 | Pseudorapidity dependence of long-range two-particle correlations in pp collisions at $\sqrt{s} = 5.02 \text{ TeV}$. Physical Review C, 2017, 96. | 1.1 | 6 |
| 1035 | Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 6 |
| 1036 | Centrality and pseudorapidity dependence of the transverse energy density in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review C, 2019, 100, . | 1.1 | 6 |
| 1037 | Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 76-99. | 1.5 | 6 |
| 1038 | Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review D, 2019, 100, . | 1.6 | 6 |
| 1039 | Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 6 |
| 1040 | Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2019, 79, 969. | 1.4 | 6 |
| 1041 | Search for triple resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 1-10. | 1.5 | 6 |
| 1042 | Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2020, 124, 041803. | 2.9 | 6 |
| 1043 | Search for $\hat{\alpha}$ meson production inside jets in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 1.5 | 6 |
| 1044 | Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2021, 16, P07001. | 0.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1045 | Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1. | | 6 |
| 1046 | Observation of the $\hat{b}0\hat{t}^{\prime}/\hat{t}\hat{t}^{\prime}$ decay in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135203. | 1.5 | 6 |
| 1047 | Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$ Using Leptonic Decays. Physical Review Letters, 2021, 127, 191801. | 2.9 | 6 |
| 1048 | Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13\text{TeV}$. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 6 |
| 1049 | A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s}=13\text{TeV}$. Journal of Instrumentation, 2022, 17, P03014. | 0.5 | 6 |
| 1050 | Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s}=13\text{TeV}$. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 6 |
| 1051 | Virtual compton scattering and polarizabilities. Progress in Particle and Nuclear Physics, 2000, 44, 371-389. | 5.6 | 5 |
| 1052 | Search for contact interactions in pp collisions at $\sqrt{s}=13\text{TeV}$. Physical Review D, 2016, 94, 014011. | 1.6 | 5 |
| 1053 | Study of final-state radiation in decays of Z bosons produced in pp collisions at $\sqrt{s}=7\text{TeV}$. Physical Review D, 2015, 91, . | 1.6 | 5 |
| 1054 | Transverse-target-spin asymmetry in exclusive Ω -meson electroproduction. European Physical Journal C, 2015, 75, 1. | 1.4 | 5 |
| 1055 | Radiation background with the CMS RPCs at the LHC. Journal of Instrumentation, 2015, 10, C05031-C05031. | 0.5 | 5 |
| 1056 | Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s}=8\text{TeV}$. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 5 |
| 1057 | Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at $\sqrt{s}=7\text{TeV}$. Physical Review D, 2016, 94, . | 1.6 | 5 |
| 1058 | Radiation tests of real-sized prototype RPCs for the Phase-2 Upgrade of the CMS Muon System. Journal of Instrumentation, 2016, 11, C08008-C08008. | 0.5 | 5 |
| 1059 | Resistive Plate Chamber digitization in a hadronic shower environment. Journal of Instrumentation, 2016, 11, P06014-P06014. | 0.5 | 5 |
| 1060 | Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $\sqrt{s}=8\text{TeV}$. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 5 |
| 1061 | | | |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1063 | Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 5 |
| 1064 | Measurement of the inclusive $\sigma(\text{t}\bar{\text{t}})$ cross section in pp collisions at $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 5 |
| 1065 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 5 |
| 1066 | Observation of the $Z\tau^+\tau^-$, $Z\tau^+\tau^-$ Decay in pp Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 124, 1418015 | 1.6 | 5 |
| 1067 | Search for a $W\tilde{e}^2$ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 5 |
| 1068 | Search for the pair production of light top squarks in the $e\tilde{e}^+\tilde{e}^-$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 5 |
| 1069 | Search for pair-produced three-jet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, . | 1.6 | 5 |
| 1070 | Performance of prototype GE1 chambers for the CMS muon spectrometer upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164104. | 0.7 | 5 |
| 1071 | Front-end electronics for CMS iRPC detectors. Journal of Instrumentation, 2021, 16, C05002. | 0.5 | 5 |
| 1072 | Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z -Boson Yields and Azimuthal Anisotropy at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2021, 127, 162002. | 2.9 | 5 |
| 1073 | Search for pair production of top squarks in the $e\tilde{e}^+\tilde{e}^-$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2021, 127, 162002. | 1.5 | 5 |
| 1074 | Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. Physical Review Letters, 2011, 2011, 1. | | 5 |
| 1075 | Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164. | 1.4 | 5 |
| 1076 | Improved-RPC for the CMS muon system upgrade for the HL-LHC. Journal of Instrumentation, 2020, 15, C11012-C11012. | 0.5 | 5 |
| 1077 | Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 5 |
| 1078 | Observation of $B\rightarrow D^*\tau^+\tau^-$ mesons and measurement of the $B\rightarrow D^*\tau^+\tau^-$ branching fraction. Physical Review Letters, 2022, 128, 161801. | 1.5 | 5 |
| 1079 | Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, . | 1.6 | 5 |
| 1080 | Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1081 | Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 5 |
| 1082 | Precision measurement of the W boson decay branching fractions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105. | 1.6 | 5 |
| 1083 | Probing Charm Quark Dynamics via Multiparticle Correlations in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2022, 129. | 2.9 | 5 |
| 1084 | An overview of the design, construction and performance of large area triple-GEM prototypes for future upgrades of the CMS forward muon system. Journal of Instrumentation, 2012, 7, C05008-C05008. | 0.5 | 4 |
| 1085 | Resistive plate chambers for 2013-2014 muon upgrade in CMS at LHC. Journal of Instrumentation, 2014, 9, C10033-C10033. | 0.5 | 4 |
| 1086 | Beam-helicity asymmetry in associated electroproduction of real photons $e^+e^- \rightarrow \gamma^* \rightarrow \gamma \ell^+\ell^-$ in the $\tilde{\nu}$ -resonance region. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 4 |
| 1087 | Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 4 |
| 1088 | A study of film and foil materials for the GEM detector proposed for the CMS muon system upgrade. Journal of Instrumentation, 2014, 9, C04022-C04022. | 0.5 | 4 |
| 1089 | Development of the data acquisition system for the Triple-GEM detectors for the upgrade of the CMS forward muon spectrometer. Journal of Instrumentation, 2014, 9, C03052-C03052. | 0.5 | 4 |
| 1090 | Studies on the upgrade of the muon system in the forward region of the CMS experiment at LHC with GEMs. Journal of Instrumentation, 2014, 9, C01053-C01053. | 0.5 | 4 |
| 1091 | Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Physical Review D, 2016, 94, . | 1.6 | 4 |
| 1092 | Search for dark matter particles in proton-proton collisions at $\sqrt{s} = 8$ TeV using the razor variables. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 4 |
| 1093 | Search for CP violation in $t\bar{t} \rightarrow t\bar{t} \gamma$ production and decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 4 |
| 1094 | Measurement of differential cross sections in the kinematic angular variable $\tilde{\phi}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 4 |
| 1095 | Search for ZZ resonances in the $2\ell, 2\ell\gamma$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 4 |
| 1096 | Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 4 |
| 1097 | Long-term performance and longevity studies of the CMS Resistive Plate Chambers. Journal of Instrumentation, 2018, 13, P08024-P08024. | 0.5 | 4 |
| 1098 | Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 121, 141802. | 2.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1099 | Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 124-130. | 1.5 | 4 |
| 1100 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305. | 1.4 | 4 |
| 1101 | Search for W Boson Decays to Three Charged Pions. Physical Review Letters, 2019, 122, 151802. | 2.9 | 4 |
| 1102 | Measurement of $B_c(2S)^+$ and $B_c^*(2S)^+$ cross section ratios in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, . | 1.6 | 4 |
| 1103 | Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, . | 1.6 | 4 |
| 1104 | Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 4 |
| 1105 | Fragmentation of jets containing a prompt J/ψ meson in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136842. | 1.5 | 4 |
| 1106 | Measurement of W differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV and effective field. Physical Review D, 2022, 105, . | 1.6 | 4 |
| 1107 | Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, . | 1.6 | 4 |
| 1108 | Alpha-cluster knockout in the $^{16}\text{O}(e,e^2\text{He})^{12}\text{C}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 513, 258-264. | 1.5 | 3 |
| 1109 | Test beam results of the GE1/1 prototype for a future upgrade of the CMS high- μ on system. , 2011, , . | | 3 |
| 1110 | Development and performance of large scale triple GEM for CMS. Journal of Instrumentation, 2013, 8, C11017-C11017. | 0.5 | 3 |
| 1111 | Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 3 |
| 1112 | Performance of a large-area GEM detector prototype for the upgrade of the CMS muon endcap system. , 2014, , . | | 3 |
| 1113 | R&D towards the CMS RPC Phase-2 upgrade. Journal of Instrumentation, 2016, 11, C09017-C09017. | 0.5 | 3 |
| 1114 | Search for $W \rightarrow tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 3 |
| 1115 | Observation of the decay $B^+ \rightarrow T(2S)^+ K^+$ in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 66-86. | | 3 |
| 1116 | Overview of large area triple-GEM detectors for the CMS forward muon upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 298-303. | 0.7 | 3 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1117 | Search for top quark partners with charge 5/3 in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 3 |
| 1118 | Operational Experience With the GEM Detector Assembly Lines for the CMS Forward Muon Upgrade. IEEE Transactions on Nuclear Science, 2018, 65, 2808-2816. | 1.2 | 3 |
| 1119 | Inclusive search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV using razor variables and boosted object identification in zero and one lepton final states. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 3 |
| 1120 | Search for excited leptons in $\tilde{\nu}_\tau, \tilde{\nu}_\tau^*$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 3 |
| 1121 | Search for Narrow H^{\pm} Resonances in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 081804. | 2.9 | 3 |
| 1122 | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002. | 0.5 | 3 |
| 1123 | Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters Section B: Nuclear, Particle and High Energy Physics, 2021, 807, 135757. | 1.5 | 3 |
| 1124 | Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, 034011. | 1.6 | 3 |
| 1125 | Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | | 3 |
| 1126 | Study of the $B^0 \rightarrow \mu^+ \mu^- \Lambda^0$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 3 |
| 1127 | Measurements of the $p\bar{p} \rightarrow Z\gamma$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | | 3 |
| 1128 | Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 213. | 1.4 | 3 |
| 1129 | Observation of the B_c^0 meson in Pb-Pb and pp collisions at $\sqrt{s} = 2.76$ and 13 TeV. Physical Review Letters, 2022, 128, 022001. | 2.9 | 3 |
| 1130 | The first virtual Compton scattering experiment at MAMI. Nuclear Physics A, 2000, 666-667, 44-47. | 0.6 | 2 |
| 1131 | Resistive Plate Chambers performance with Cosmic Rays in the CMS experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 180-182. | 0.7 | 2 |
| 1132 | CMS RPC muon detector performance with 2010-2012 LHC data. Journal of Instrumentation, 2014, 9, C12016-C12016. | 0.5 | 2 |
| 1133 | Charged particle detection performance of Gas Electron Multiplier (GEM) detectors for the upgrade of CMS endcap muon system at the CERN LHC. Journal of Instrumentation, 2015, 10, C05001-C05001. | | 2 |
| 1134 | Fiber Bragg Grating (FBG) sensors as flatness and mechanical stretching sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 493-495. | 0.7 | 2 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1135 | The Triple GEM Detector Control System for CMS forward muon spectrometer upgrade. Journal of Instrumentation, 2017, 12, P02003-P02003. | 0.5 | 2 |
| 1136 | Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 1. | 1.4 | 2 |
| 1137 | Fast timing measurement for CMS RPC Phase-II upgrade. Journal of Instrumentation, 2018, 13, C09001-C09001. | 0.5 | 2 |
| 1138 | A novel application of Fiber Bragg Grating (FBG) sensors in MPPGD. EPJ Web of Conferences, 2018, 174, 03002. | 0.1 | 2 |
| 1139 | RE3/1 & RE4/1 RPC chambers integration in the inner region of the forward muon spectrometer in the CMS experiment. Journal of Instrumentation, 2019, 14, C10027-C10027. | 0.5 | 2 |
| 1140 | R&D of a real-size mosaic MRPC within the framework of the CMS muon upgrade. Journal of Instrumentation, 2019, 14, C10042-C10042. | 0.5 | 2 |
| 1141 | Measurement of the top quark pair production cross section in dilepton final states containing one \bar{l} , lepton in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 2 |
| 1142 | A portable muon telescope for exploration geophysics in confined environments. , 2021, , . | | 2 |
| 1143 | Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852. | 1.4 | 2 |
| 1144 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. , 2013, 2013, 1. | | 2 |
| 1145 | Particle identification using Boosted Decision Trees in the Semi-Digital Hadronic Calorimeter prototype. Journal of Instrumentation, 2020, 15, P10009-P10009. | 0.5 | 2 |
| 1146 | Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 2 |
| 1147 | Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s}=5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 2 |
| 1148 | Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, . | 1.6 | 2 |
| 1149 | Measurement of the production cross section for $Zb\bar{b}$ jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2022, 105, . | 1.6 | 2 |
| 1150 | Virtual compton scattering under $\bar{l}e0$ threshold at $Q^2=0.33$ GeV ² . Preliminary results. Nuclear Physics A, 1999, 654, 547c-551c. | 0.6 | 1 |
| 1151 | The first dedicated virtual compton scattering experiment at MAMI. Nuclear Physics A, 2000, 663-664, 389c-392c. | 0.6 | 1 |
| 1152 | THE CMS RPC SYSTEM OVERVIEW. , 2010, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|---|-----|-----------|
| 1153 | Gas flow simulations for gaseous detectors. , 2010, , . | | 1 |
| 1154 | CMS RPC tracker muon reconstruction. Journal of Instrumentation, 2014, 9, C10027-C10027. | 0.5 | 1 |
| 1155 | CMS Collaboration. Nuclear Physics A, 2014, 931, 1241-1265. | 0.6 | 1 |
| 1156 | Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 1 |
| 1157 | Bose-Einstein correlations in hadron-pairs from lepto-production on nuclei ranging from hydrogen to xenon. European Physical Journal C, 2015, 75, 1. | 1.4 | 1 |
| 1158 | Pentaquark $\hat{\pi}^+$ search at HERMES. Physical Review D, 2015, 91, . | 1.6 | 1 |
| 1159 | Status report of the upgrade of the CMS muon system with Triple-GEM detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 521-525. | 0.7 | 1 |
| 1160 | CMS Collaboration. Nuclear Physics A, 2017, 967, 965-982. | 0.6 | 1 |
| 1161 | Quality control for the first large areas of triple-GEM chambers for the CMS endcaps. EPJ Web of Conferences, 2018, 174, 03003. | 0.1 | 1 |
| 1162 | High voltage calibration method for the CMS RPC detector. Journal of Instrumentation, 2019, 14, C09046-C09046. | 0.5 | 1 |
| 1163 | Longevity studies on the CMS-RPC system. Journal of Instrumentation, 2019, 14, C05012-C05012. | 0.5 | 1 |
| 1164 | Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets. Physical Review Letters, 2019, 123, 241801. | 2.9 | 1 |
| 1165 | RPC upgrade project for CMS Phase II. Journal of Instrumentation, 2020, 15, C05072-C05072. | 0.5 | 1 |
| 1166 | Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 1 |
| 1167 | Research and development of the back-end electronics for the two-dimensional improved resistive plate chambers in CMS upgrade. Radiation Detection Technology and Methods, 2021, 5, 181-191. | 0.4 | 1 |
| 1168 | Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $\sqrt{s_{NN}}=8.16 \text{ TeV}$. Physical Review C, 2021, 103, . | 1.1 | 1 |
| 1169 | Upgrade of the muon system in the high eta region of the CMS experiment at LHC with GEMs. , 2014, , . | | 1 |
| 1170 | Upgrade of the CMS resistive plate chambers for the high luminosity LHC. Journal of Instrumentation, 2022, 17, C01011. | 0.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1171 | Search for $W\tilde{\chi}^3$ resonances in proton-proton collisions at $\sqrt{s}=13$ TeV using hadronic decays of Lorentz-boosted W bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 826, 136888. | 1.5 | 1 |
| 1172 | Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 1 |
| 1173 | Observation of $B^0 \rightarrow \psi(2S)K^0_{\text{charm}}$ and $B^0_{\text{charm}} \rightarrow \psi(2S)K^0_{\text{charm}}$ decays. European Physical Journal C, 2022, 82, . | 1.4 | 1 |
| 1174 | Particle identification with the HERMES RICH. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 433, 286-288. | 0.7 | 0 |
| 1175 | RECENT HERMES RESULTS ON MESON PRODUCTION. International Journal of Modern Physics A, 2005, 20, 417-426. | 0.5 | 0 |
| 1176 | RECENT HERMES RESULTS ON MESON PRODUCTION. International Journal of Modern Physics A, 2005, 20, 1680-1685. | 0.5 | 0 |
| 1177 | Exclusive meson production at HERMES. European Physical Journal A, 2007, 31, 451-453. | 1.0 | 0 |
| 1178 | High-rate glass resistive plate chambers for LHC muon detectors upgrade. , 2012, , . | | 0 |
| 1179 | Simulation of the CMS Resistive Plate Chambers. Journal of Instrumentation, 2013, 8, P03001-P03001. | 0.5 | 0 |
| 1180 | Web-based monitoring tools for Resistive Plate Chambers in the CMS experiment at CERN. Journal of Instrumentation, 2014, 9, C10031-C10031. | 0.5 | 0 |
| 1181 | CMS RPC commissioning of the existing detector during the long shutdown. Journal of Instrumentation, 2014, 9, C10043-C10043. | 0.5 | 0 |
| 1182 | Status report on the CMS forward muon upgrade with large-size triple-GEM detectors. , 2014, , . | | 0 |
| 1183 | Performance of the gas gain monitoring system of the CMS RPC muon detector. Journal of Instrumentation, 2015, 10, C01003-C01003. | 0.5 | 0 |
| 1184 | CMS muon system phase 2 upgrade with triple-GEM detectors. , 2015, , . | | 0 |
| 1185 | Detector control system and efficiency performance for CMS RPC at GIF++. Journal of Instrumentation, 2016, 11, C10013-C10013. | 0.5 | 0 |
| 1186 | Mechanical stability of the CMS strip tracker measured with a laser alignment system. Journal of Instrumentation, 2017, 12, P04023-P04023. | 0.5 | 0 |
| 1187 | Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 0 |
| 1188 | High Rate RPC detector for LHC. Journal of Instrumentation, 2019, 14, C10037-C10037. | 0.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|------|--|-----|-----------|
| 1189 | CMS RPC efficiency measurement using the tag-and-probe method. Journal of Instrumentation, 2019, 14, C10020-C10020. | 0.5 | 0 |
| 1190 | Search for Heavy Stable Charged Particles in the CMS Experiment using the RPC Phase II upgraded detectors. Journal of Instrumentation, 2019, 14, C11011-C11011. | 0.5 | 0 |
| 1191 | Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135103. | 1.5 | 0 |
| 1192 | NEW RESULTS FROM HERMES. , 2004, , . | | 0 |
| 1193 | A DEDICATED BEAM TESTS OF THE FULL-SCALE PROTOTYPE OF GEMS FOR CMS IN A STRONG MAGNETIC FIELD. Astroparticle, Particle, Space Physics, Radiation Interaction, Detectors and Medical Physics Applications, 2012, , 732-737. | 0.1 | 0 |
| 1194 | Real and Virtual Compton Scattering (experiments). Few-Body Systems, 1999, , 316-326. | 0.2 | 0 |
| 1195 | Energy reconstruction of hadronic showers at the CERN PS and SPS using the Semi-Digital Hadronic Calorimeter. Journal of Instrumentation, 2022, 17, P07017. | 0.5 | 0 |
| 1196 | Search for heavy resonances decaying to $Z\gamma$. Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 832, 137263. | | |
| 1197 | Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 832, 137263. | 1.5 | 0 |